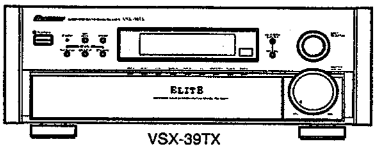
Pioneer

Service Manual


VSX-39TX

ORDER NO.
RRV2295

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-39TX
VSX-37TX
VSX-36TX
VSX-D909S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model				Power Requirement	Remarks
	VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S		
KU/CA	○	○	○	○	AC120V	

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T－ZZR MAY 2000

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols ▭ (fast operating fuse) and/or ▭ (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible ▭ (fusible de type rapide) et/ou ▭ (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

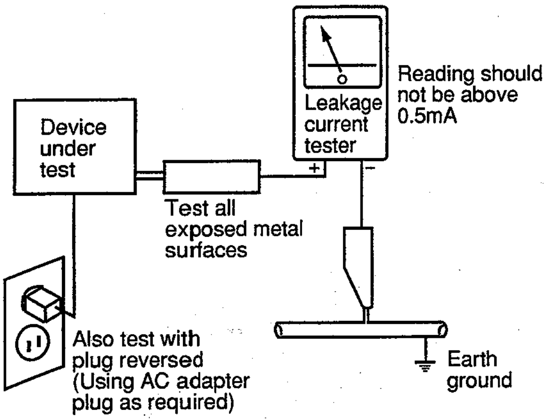
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
Device under test
+
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Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a △ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

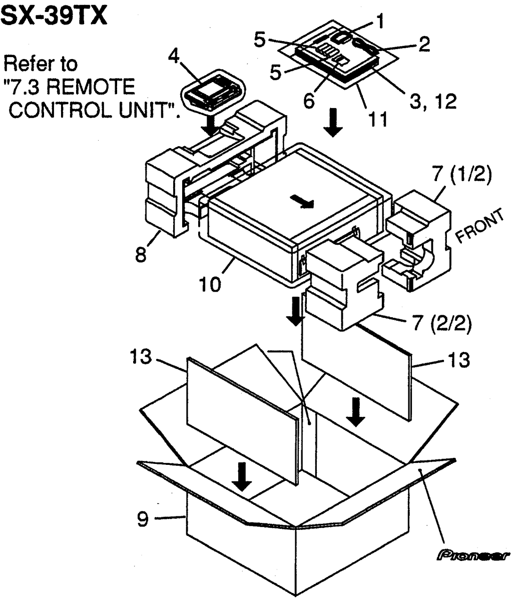
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

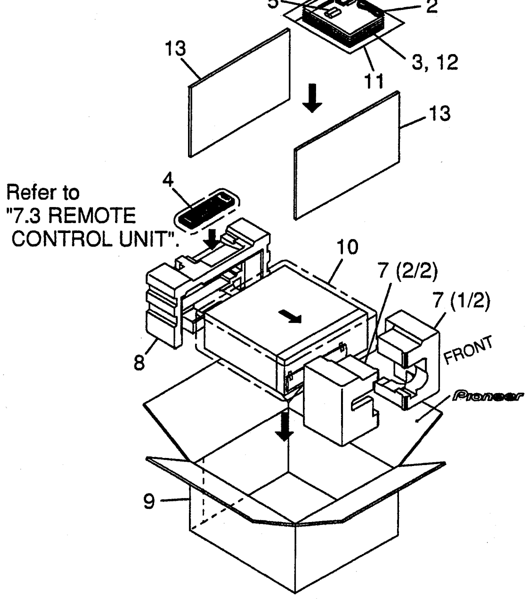
NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING

● VSX-39TX



● Other Models



(1) PACKING PARTS LIST

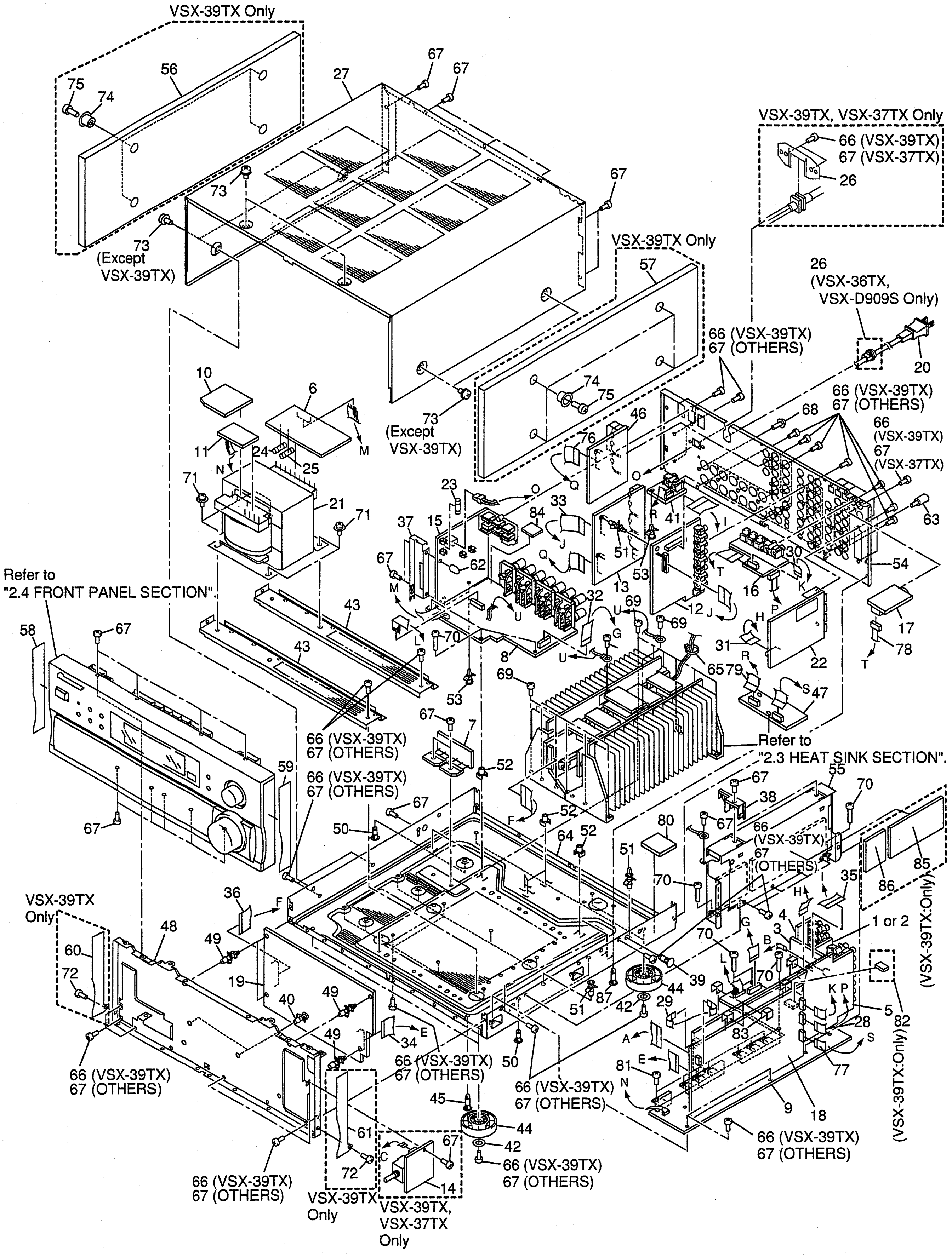
Mark	No.	Description	Part No.
	1	AM Loop Antenna	ATB7009
	2	FM Wire Antenna	ADH7007
	3	Operating Instructions (English)	See Contrast table (2)
	4	Remote Control Unit	See Contrast table (2)
NSP	5	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	6	Cushion for Remote (for Remote Control Unit)	See Contrast table (2)
	7	Front Pad	See Contrast table (2)
	8	Rear Pad	See Contrast table (2)
	9	Packing Case	See Contrast table (2)
	10	Packing Sheet	RHC1023
NSP	11	Polyethylene Bag (0.03×230×340)	Z21-038
NSP	12	Warranty Card	See Contrast table (2)
	13	Spacer	See Contrast table (2)

(2) CONTRAST TABLE

VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
	3	Operating Instructions (English)	ARB7230	ARB7231	ARB7231	ARB7232	
	4	Remote Control Unit (39)	AXD7254	Not used	Not used	Not used	
	4	Remote Control Unit (36)	Not used	AXD7257	AXD7257	Not used	
	4	Remote Control Unit (909S)	Not used	Not used	Not used	AXD7278	
	6	Cushion for Remote	AXG7080	Not used	Not used	Not used	
	7	Front Pad 29	AHA7255	Not used	Not used	Not used	
	7	Front Pad 26	Not used	AHA7253	AHA7253	AHA7253	
	8	Rear Pad 29	AHA7256	Not used	Not used	Not used	
	8	Rear Pad 26	Not used	AHA7254	AHA7254	AHA7254	
	9	Packing Case 39TX	AHD7882	Not used	Not used	Not used	
	9	Packing Case 37TX	Not used	AHD7881	Not used	Not used	
	9	Packing Case 36TX	Not used	Not used	AHD7880	Not used	
	9	Packing Case 909S	Not used	Not used	Not used	AHD7883	
NSP	12	Warranty Card EL	ARY1026	ARY1026	ARY1026	Not used	
NSP	12	Warranty Card PA	Not used	Not used	Not used	ARY7045	
	13	Spacer 29	AHB7033	Not used	Not used	Not used	
	13	Spacer 26	Not used	AHB7032	AHB7032	AHB7032	

2.2 EXTERIOR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(VSX-39TX:Only)
(VSX-39TX:Only)

(1) EXTERIOR PARTS LIST

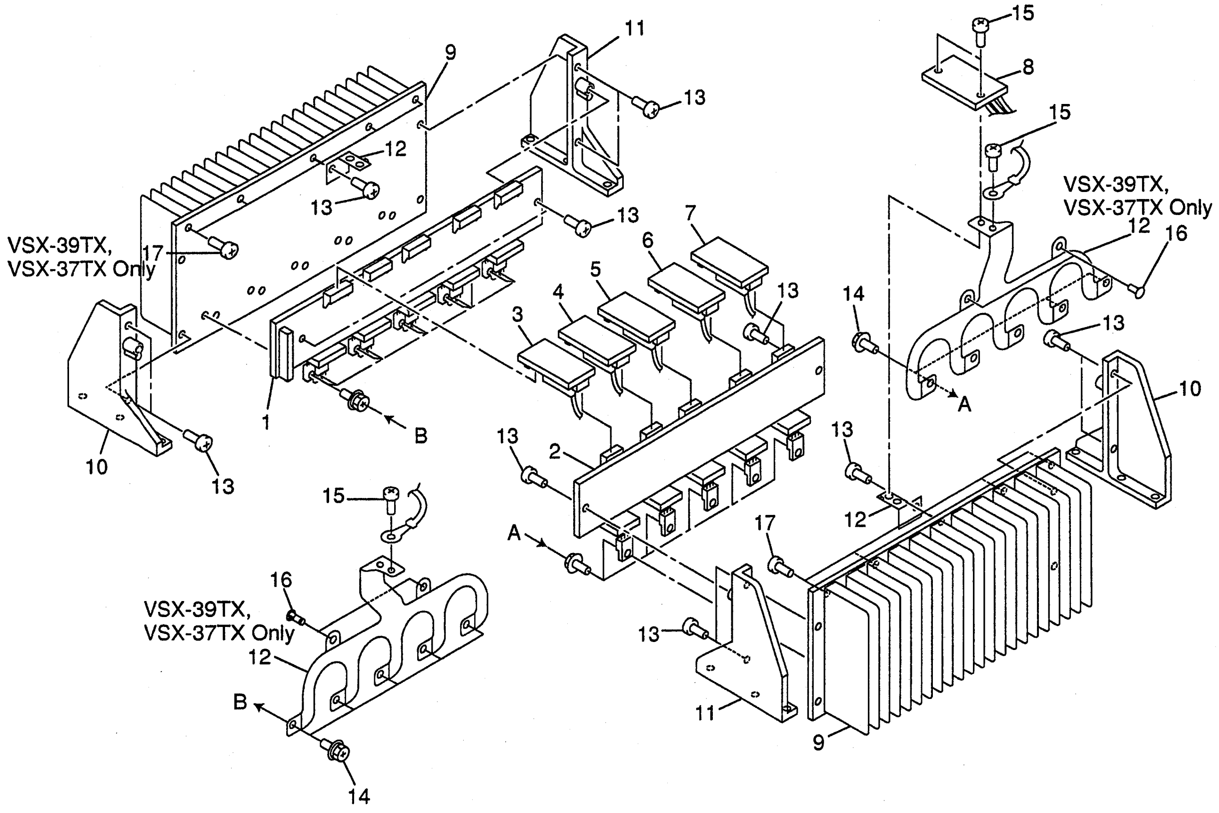
Mark	No.	Description	Part No.
NSP	1	EXTRA-5.1 Assy	See Contrast table (2)
NSP	2	EXTERNAL IN Assy	See Contrast table (2)
NSP	3	A-PINJACK Assy	See Contrast table (2)
	4	CONNECTION Assy	AWX7313
	5	MAIN CONTROL Assy	See Contrast table (2)
	6	TRANS 2-1 ASSY	See Contrast table (2)
	7	DIODE Assy	See Contrast table (2)
	8	SP/PS Assy	See Contrast table (2)
	9	REGULATOR Assy	AWX7310
	10	TRANS 1 Assy	AWX7316
	11	TRANS 2-2 Assy	AWX7366
	12	VIDEO Assy	See Contrast table (2)
	13	S-VIDEO Assy	See Contrast table (2)
	14	VOLUME Assy	See Contrast table (2)
	15	PRIMARY Assy	AWX7311
	16	RF/DIGITAL IN Assy	See Contrast table (2)
NSP	17	OPT OUT Assy	AWX7643
	18	DSP Assy	See Contrast table (2)
	19	V-AMP Assy	See Contrast table (2)
⚠	20	AC Power Cord	See Contrast table (2)
⚠	21	Power Transformer (T1)	ATS7252
	22	FM/AM TUNER Unit	AXX7046
⚠	23	Fuse (FU1 : 10A)	VEK1029
⚠	24	Fuse (FU4 : 2.5A)	REK1079
⚠	25	Fuse (FU5 : 2.5A)	REK1079
	26	AC Cord Spacer	See Contrast table (2)
	27	Bonnet Case	See Contrast table (2)
	28	2P Shield with Housing (J24)	ADX7250
	29	Lead Card 07P (J13)	ADD7161
	30	Lead Card 13P AD (J22)	ADD7250
	31	Lead Card 13P AD (J16)	ADD7169
	32	Lead Card 14P (J17)	ADD7165
	33	Lead Card 21P (J18)	ADD7164
	34	Lead Card 23P BD SLD (J12)	ADD7160
	35	Lead Card 26P (J15)	ADD7163
	36	Lead Card 28P (J23)	ADD7171
	37	Assy Holder	See Contrast table (2)
	38	Assy Holder B	AMR7267
	39	Card Spacer	AEC7133
	40	Card Spacer	DEC1772
	41	2CH I/O PJ Assy	AWX7634
	42	Cushion 55	PNM1316
NSP	43	Frame	See Contrast table (2)
	44	Insulator	PNW2766
	45	Locking Card Spacer	DEC1908
	46	COMPONENT Assy	AWX7635
	47	TRIM Assy	AWX7655
NSP	48	Panel Stay	See Contrast table (2)
	49	PC Support	VEC1549
NSP	50	PCB Holder	AEC7057
NSP	51	PCB Holder	PNW2100
NSP	52	PCB Mould	AMR1525
	53	PCB Spacer	AEC1372
	54	Rear Panel	See Contrast table (2)
	55	Shield Case	See Contrast table (2)
	56	Side Board 29 L	See Contrast table (2)
	57	Side Board 29 R	See Contrast table (2)
	58	Side Escutheon L	See Contrast table (2)
	59	Side Escutheon R	See Contrast table (2)
	60	Side Sash L 29	See Contrast table (2)
	61	Side Sash R 29	See Contrast table (2)
	62	Stud Cover	AEC7105
	63	Terminal Screw	AKE-031
NSP	64	Under Base 29	See Contrast table (2)
NSP	65	Binder (BK-1)	ZCA-BK1
	66	Screw	BBT30P080FCC
	67	Screw	BBZ30P080FZK
	68	Screw	ABA1193
	69	Screw	IBZ30P080FCC
	70	Screw	BBZ30P180FMC
	71	Screw	ABA1053
	72	Screw	BBT30P040FZK
	73	Screw	FBT40P080FZK
	74	Wood Collar	See Contrast table (2)
	75	Screw	See Contrast table (2)
	76	Lead Card 06P (J27)	ADD7248
	77	Lead Card 13P (J26)	ADD7251
	78	Lead Card 04P (J29)	ADD7247
	79	Lead Card 09P (J28)	ADD7249
	80	Cushion C	PNM1059
	81	Screw	IBZ30P100FCC
	82	Spacer	See Contrast table (2)
	83	Remo-con. Cushion	AEB7167
	84	Spacer	AEB7180
	85	S. Cushion	See Contrast table (2)
	86	Sheet	See Contrast table (2)
	87	Locking Card Spacer	VEC1596

(2) CONTRAST TABLE

VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
NSP	1	EXTRA-5.1 Assy	AWX7314	Not used	Not used	Not used	
NSP	2	EXTERNAL IN Assy	Not used	AWX7398	AWX7398	AWX7398	
NSP	3	A-PINJACK Assy	AWX7312	AWX7397	AWX7397	AWX7397	
	5	MAIN CONTROL Assy	AWX7705	AWX7706	AWX7707	AWX7708	
	6	TRANS 2-1 Assy	AWX7659	AWX7694	AWX7695	AWX7695	
	7	DIODE Assy	AWX7660	AWX7697	AWX7697	AWX7697	
	8	SP/PS Assy	AWX7658	AWX7688	AWX7689	AWX7689	
	12	VIDEO Assy	AWX7307	AWX7394	AWX7394	AWX7394	
	13	S-VIDEO Assy	AWX7678	AWX7679	AWX7679	AWX7679	
	14	VOLUME Assy	AWX7367	AWX7367	Not used	Not used	
	16	RF / DIGITAL IN Assy	AWX7637	AWX7638	AWX7642	AWX7642	
	18	DSP Assy	AWX7632	AWX7632	AWX7633	AWX7633	
	19	V-AMP Assy	AWX7729	AWX7309	AWX7309	AWX7409	
⚠	20	AC Power Cord	ADG7028	ADG7028	ADG7024	ADG7024	
	26	AC Cord Spacer	ANG1153	ANG1153	Not used	Not used	
	26	Cord Stopper	Not used	Not used	CM-22C	CM-22C	
	27	Bonnet Case 29	AZN7790	Not used	Not used	Not used	
	27	Bonnet Case 26	Not used	AZN7789	AZN7789	AZN7789	
	37	Assy Holder	ANG7322	ANG7321	ANG7321	ANG7321	
	41	2CH I/O PJ Assy	AWX7634	AWX7646	AWX7646	AWX7646	
NSP	43	Frame 29	ANG7243	Not used	Not used	Not used	
NSP	43	Frame 26	Not used	ANG7238	ANG7238	ANG7238	
	46	COMPONENT Assy	AWX7635	AWX7636	AWX7636	AWX7636	
NSP	48	Panel Stay 29	AND7032	Not used	Not used	Not used	
NSP	48	Panel Stay 26	Not used	AND7031	AND7031	AND7031	
	54	Rear Panel 39	ANC7945	Not used	Not used	Not used	
	54	Rear Panel 37	Not used	ANC7944	Not used	Not used	
	54	Rear Panel 36	Not used	Not used	ANC7943	Not used	
	54	Rear Panel D909S	Not used	Not used	Not used	ANC7946	
	55	Shield Case 39	ANK7079	Not used	Not used	Not used	
	55	Shield Case 36	Not used	ANK7078	ANK7054	ANK7054	
	56	Side Board 29 L	AMS7013	Not used	Not used	Not used	
	57	Side Board 29 R	AMS7014	Not used	Not used	Not used	
	58	Side Escutheon L 29	AAK7635	Not used	Not used	Not used	
	58	Side Escutheon L 26	Not used	AAK7633	AAK7633	AAK7633	
	59	Side Escutheon R 29	AAK7636	Not used	Not used	Not used	
	59	Side Escutheon R 26	Not used	AAK7634	AAK7634	AAK7634	
	60	Side Sash L 29	AAH7019	Not used	Not used	Not used	
	61	Side Sash R 29	AAH7020	Not used	Not used	Not used	
NSP	64	Under Base 29	ANA7091	Not used	Not used	Not used	
NSP	64	Under Base 26	Not used	ANA7089	ANA7089	ANA7089	
	74	Wood Collar	AEC1165	Not used	Not used	Not used	
	75	Screw	ABA1086	Not used	Not used	Not used	
	82	Spacer	AEB7179	Not used	Not used	Not used	
	85	S. Cushion	AEB7178	Not used	Not used	Not used	
	86	Sheet	AED7035	Not used	Not used	Not used	

2.3 HEAT SINK SECTION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(1) HEAT SINK SECTION PARTS LIST

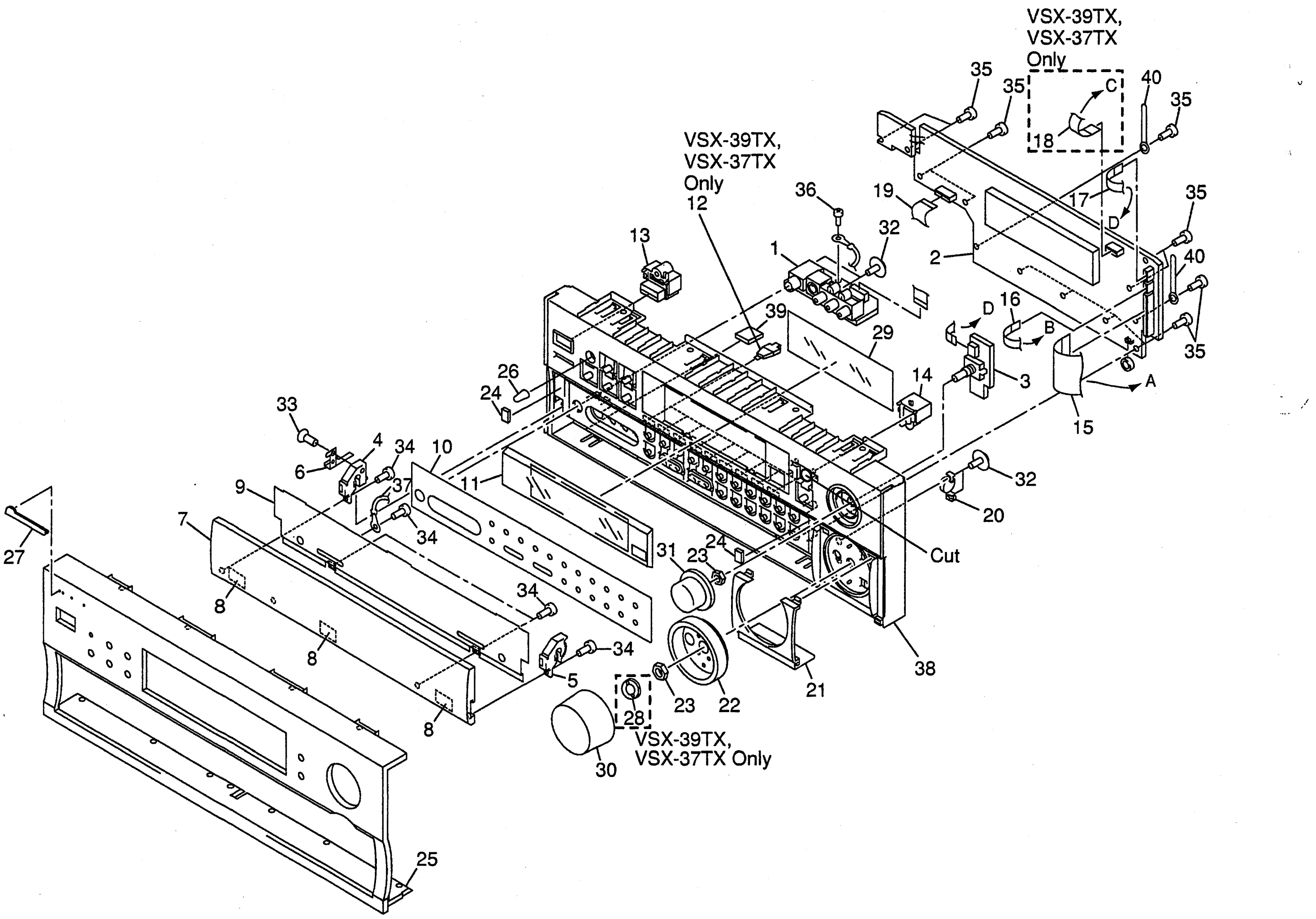
Mark	No.	Description	Part No.
	1	C-AMP N Assy	AWX7681
NSP	2	C-AMP-P Assy	AWX7680
NSP	3	OUTPUT-SL Assy	AWX7685
NSP	4	OUTPUT-FL Assy	AWX7682
	5	OUTPUT-C Assy	AWX7684
NSP	6	OUTPUT-FR Assy	AWX7683
NSP	7	OUTPUT-SR Assy	AWX7686
	8	VL-TERMINAL Assy	AWX7657
NSP	9	Heat Sink	See Contrast table (2)
	10	Heat Sink Holder A	AMR7255
	11	Heat Sink Holder B	AMR7256
NSP	12	Power Supply Plate	See Contrast table (2)
	13	Screw	See Contrast table (2)
	14	Screw	ABA1082
	15	Screw	IBZ30P080FCC
	16	Card Spacer	See Contrast table (2)
	17	Screw	See Contrast table (2)

(2) CONTRAST TABLE

VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
NSP	9	Heat Sink D10	ANH7103	ANH7103	Not used	Not used	
NSP	9	Heat Sink 26	Not used	Not used	ANH7102	ANH7102	
NSP	12	Power Supply Plate	ANG7280	ANG7280	ANG7240	ANG7240	
	13	Screw	IBZ30P080FCC	IBZ30P080FCC	BBZ30P080FZK	BBZ30P080FZK	
NSP	16	Card Spacer	DNK2769	DNK2769	Not used	Not used	
	17	Screw	BBZ40P080FCC	BBZ40P080FCC	Not used	Not used	

2.4 FRONT PANEL SECTION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VSX-37TX Only
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(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	H. PHONE/F. VIDEO Assy	AWX7342
	2	DISPLAY Assy	See Contrast table (2)
NSP	3	ROTARY ENCODER Assy	See Contrast table (2)
	4	Door Hinge 26 L	AMR7252
	5	Door Hinge 26 R	AMR7253
NSP	6	Magnet Angle	ANG7241
	7	Door Panel	See Contrast table (2)
NSP	8	Spacer	VEC-244
NSP	9	Door Plate 26	AAH7024
	10	Door Sheet	See Contrast table (2)
	11	Display Panel 26	AAK7625
	12	Function Lens 27	See Contrast table (2)
	13	Power Button (STANDBY/ON)	AAD7440
	14	MR Button (MULTIROOM)	AAD7514
	15	Lead Card 32P (J11)	ADD7159
	16	Lead Card 05P (J14)	ADD7254
	17	Lead Card 06P (J20)	ADD7167
	18	Lead Card 08P (J19)	See Contrast table (2)
	19	Lead Card 12P (J21)	ADD7166
	20	Damper Assy (60)	AXA7078
	21	Sub Panel	See Contrast table (2)
	22	Volume Ring	See Contrast table (2)
	23	Nut	NK90FUC
	24	Door Cusion B	AEB7152
	25	Front Panel	See Contrast table (2)
	26	LED Lens	PNW2019
	27	Name Plate B	PAN1376
	28	Ring Spacer D5	See Contrast table (2)
	29	FL Sheet 26	AAK7627
	30	Volume Knob (MASTER VOLUME)	See Contrast table (2)
	31	Rotary Knob (INPUT SELECTOR)	See Contrast table (2)
	32	Screw	ABA7053
	33	Screw	PBA1096
	34	Screw	BPZ30P060FMC
	35	Screw	BPZ30P080FMC
	36	Screw	BBZ30P080FZK
NSP	37	Cord with Plug	ADH7020
	38	Panel Base	See Contrast table (2)
	39	Magnet	AMF7002
	40	Cord Clamper	RNH-184

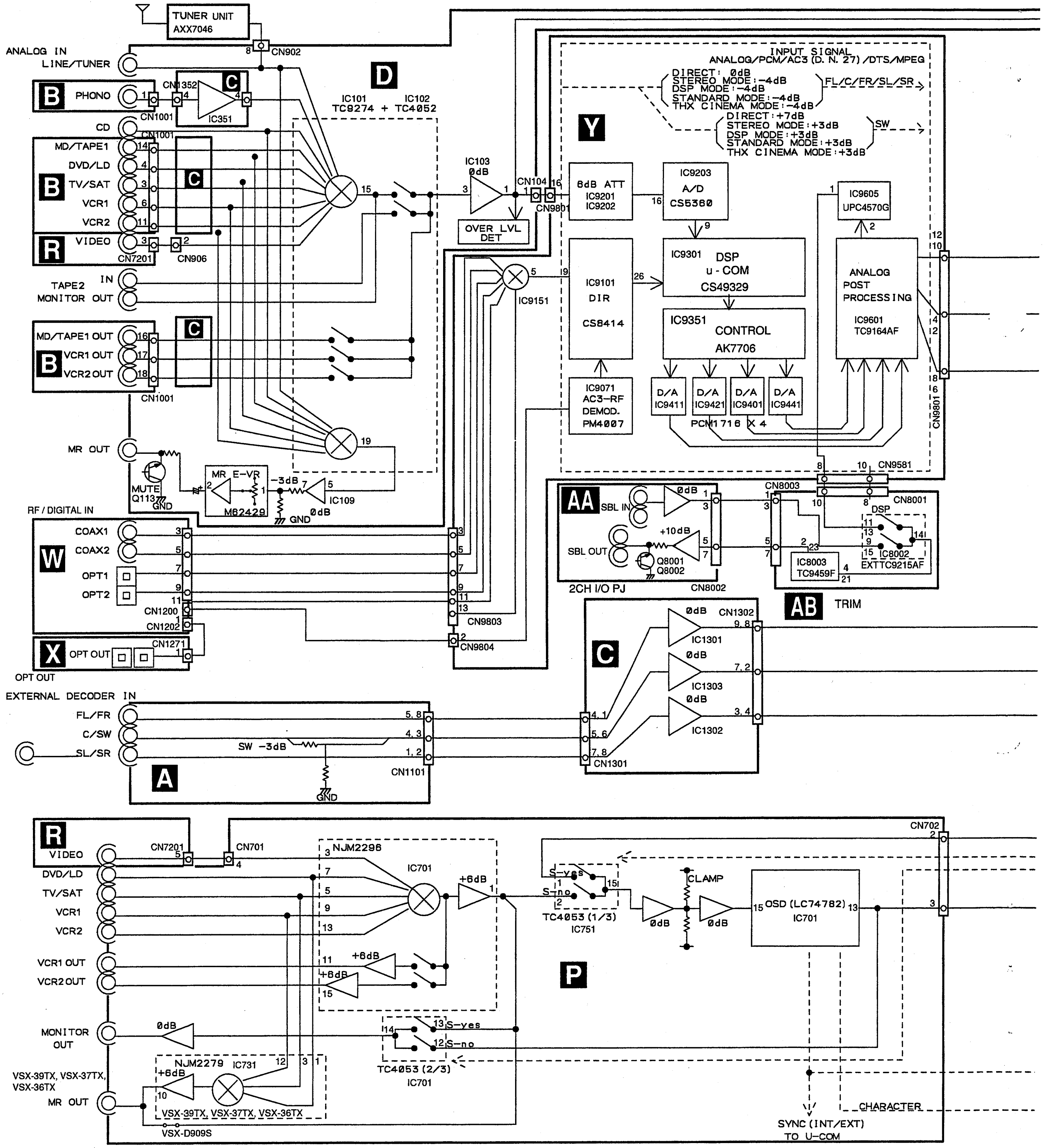
(2) CONTRAST TABLE

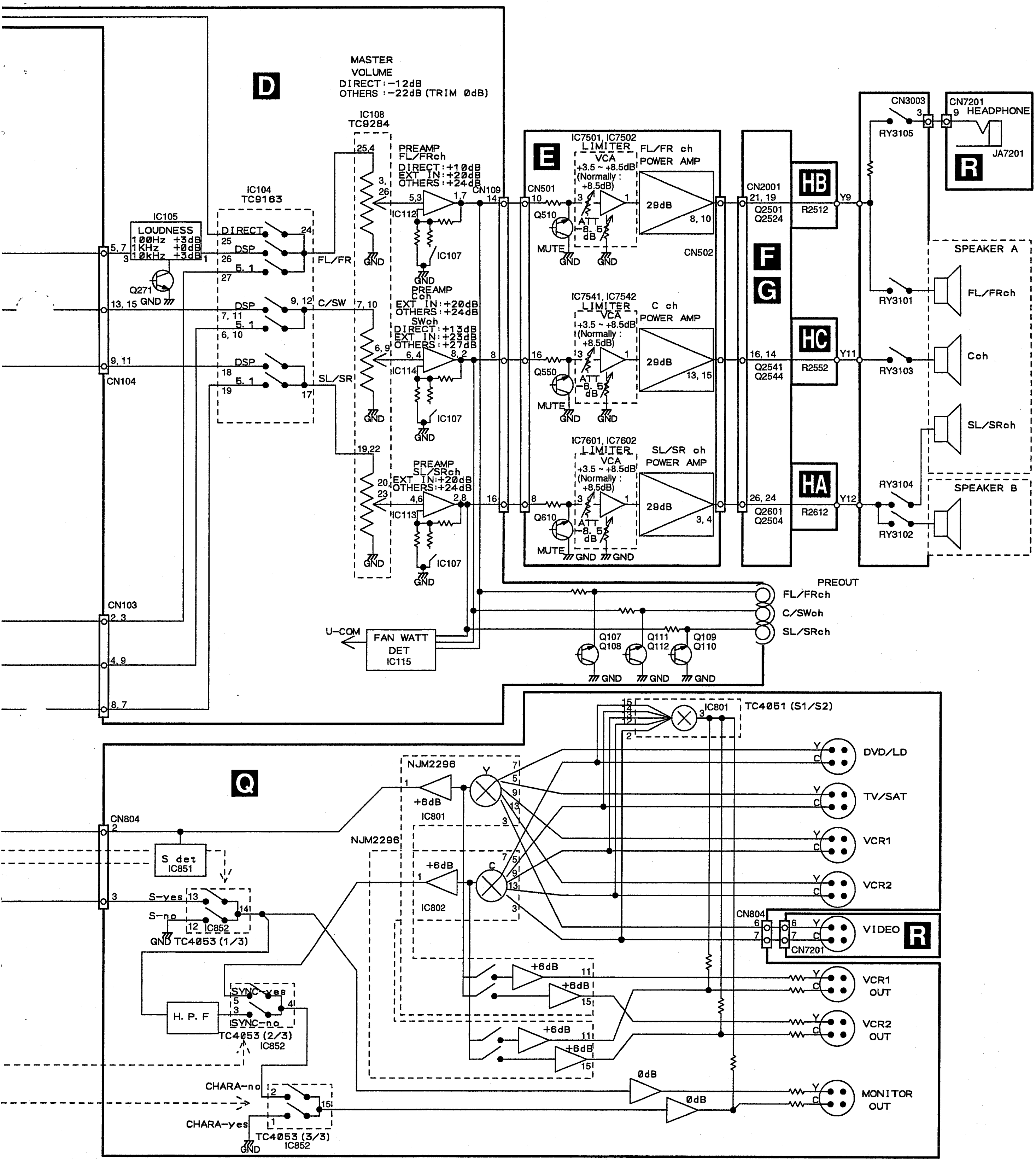
VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
	1	H.PHONE/F.VIDEO Assy	AWX7342	AWX7342	AWX7528	AWX7528	
	2	DISPLAY Assy	AWX7698	AWX7698	AWX7699	AWX7700	
NSP	3	ROTARY ENCODER Assy	AWX7328	AWX7328	AWX7726	AWX7726	
	7	Door Panel 39	AMB7722	AMB7718	AMB7718	Not used	
	7	Door Panel 98SD	Not used	Not used	Not used	AMB7624	
	10	Door Sheet 39	AAK7789	AAK7789	AAK7789	Not used	
	10	Door Sheet D909S	Not used	Not used	Not used	AAK7790	
	12	Function Lens 27	AAK7628	AAK7628	Not used	Not used	
	18	Lead Card 08P (J19)	ADD7168	ADD7168	Not used	Not used	
	21	Sub Panel 29	AMB7622	AMB7622	Not used	Not used	
	21	Sub Panel 26	Not used	Not used	AMB7575	Not used	
	21	Sub Panel 908	Not used	Not used	Not used	AMB7617	
	22	Volume Ring D10	AAH7016	Not used	Not used	Not used	
	22	Volume Ring 26	Not used	AAK7623	AAK7623	AAK7623	
	25	Front Panel 39	AMB7718	Not used	Not used	Not used	
	25	Front Panel 37	Not used	AMB7717	Not used	Not used	
	25	Front Panel 36	Not used	Not used	AMB7716	Not used	
	25	Front Panel D909S	Not used	Not used	Not used	AMB771	
	28	Ring Spacer D5	AWL7038	AWL7038	Not used	Not used	
	30	Volume Knob 27	AAB7194	AAB7194	Not used	Not used	
	30	Volume Knob 26	Not used	Not used	AAB7193	AAB7193	
	31	Rotary Knob 29	AAB7221	AAB7221	Not used	Not used	
	31	Rotary Knob 26	Not used	Not used	AAB7196	AAB7196	
	38	Panel Base 27	AMB7570	AMB7570	Not used	Not used	
	38	Panel Base 26	Not used	Not used	AMB7569	AMB7569	

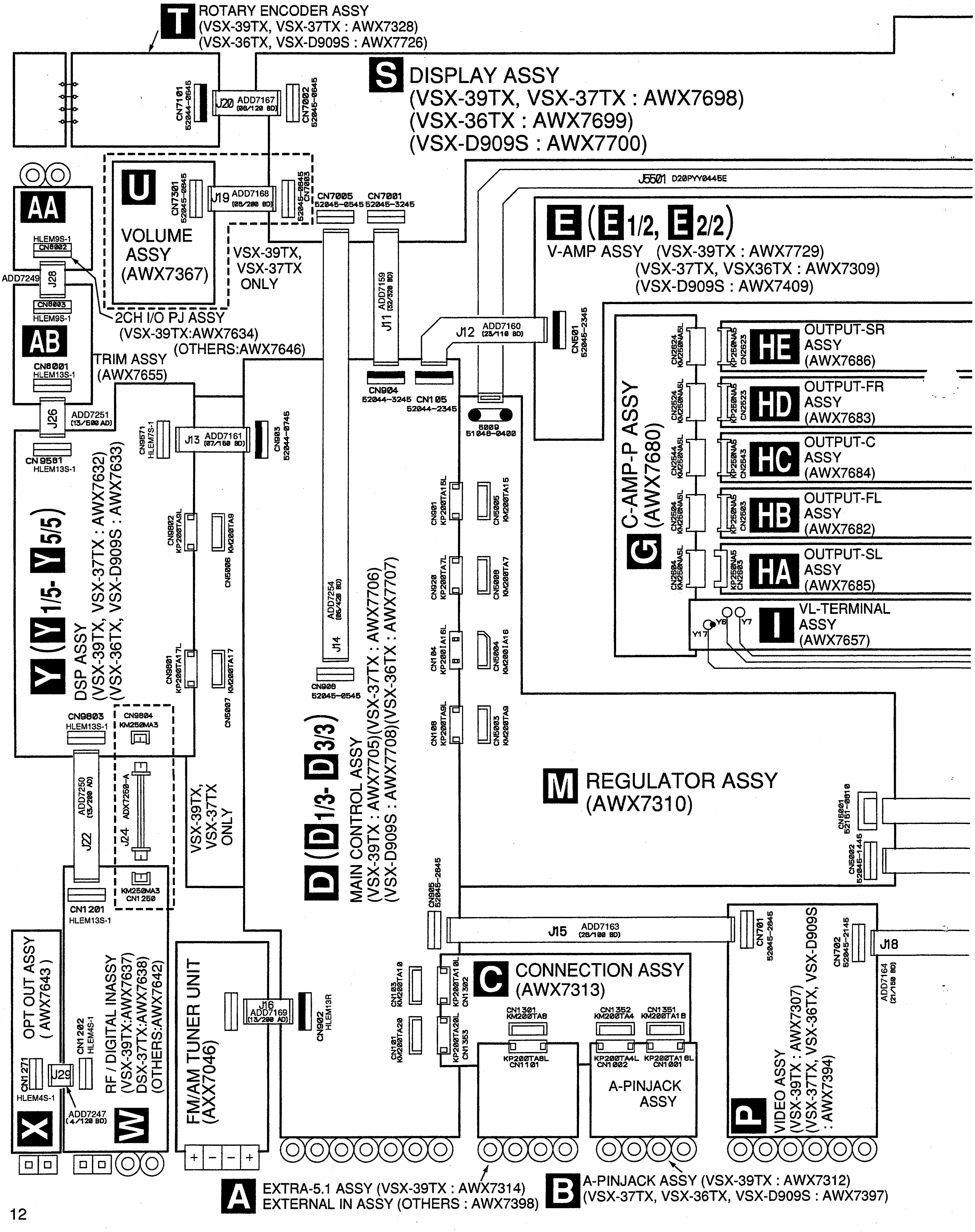
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM


TUNER UNIT
AXX7046
ANALOG IN
LINE/TUNER
CN902
B
PHONO
CN1352
C
IC351
CN1001
CD
MD/TAPE1
DVD/LD
TV/SAT
VCR1
VCR2
R
VIDEO
CN7201
CN906
TAPE2 IN
MONITOR OUT
MD/TAPE1 OUT
VCR1 OUT
VCR2 OUT
MR OUT
MUTE
Q113
GND
MR E-VR
M62429
-3dB
0dB
IC109
D
IC101 IC102
TC9274 + TC4052
IC103
0dB
OVER LVL DET
CN104
CN9801
IC9151
RF / DIGITAL IN
W
COAX1
COAX2
OPT1
OPT2
CN1200
CN1202
X
OPT OUT
CN1271
CN9803
CN9804
INPUT SIGNAL
ANALOG/PCM/AC3 (D. N. 27) /DTS/MPEG
DIRECT: 0dB
STEREO MODE: -4dB
DSP MODE: -4dB
STANDARD MODE: -4dB
THX CINEMA MODE: -4dB
FL/C/FR/SL/SR
DIRECT: +7dB
STEREO MODE: +3dB
DSP MODE: +3dB
STANDARD MODE: +3dB
THX CINEMA MODE: +3dB
SW
Y
6dB ATT
IC9201
IC9202
IC9203
A/D
CS5360
IC9605
UPC4570G
IC9101
DIR
CS8414
IC9301 DSP
u-COM
CS49329
IC9351
CONTROL
AK7706
ANALOG POST PROCESSING
IC9601
TC9164AF
IC9071
AC3-RF DEMOD.
PM4007
D/A IC9411
D/A IC9421
D/A IC9401
D/A IC9441
PCM1716 X 4
CN9801
CN9581
AA
SBL IN
SBL OUT
0dB
+10dB
Q8001
Q8002
2CH I/O PJ
CN8002
CN8003
CN8001
DSP
IC8003
TC9459F
IC8002
EXTTC9215AF
AB
TRIM
C
CN1302
IC1301
IC1303
IC1302
0dB
CN1301
EXTERNAL DECODER IN
FL/FR
C/SW
SL/SR
SW -3dB
A
CN1101
GND
R
VIDEO
CN7201
CN701
DVD/LD
TV/SAT
VCR1
VCR2
VCR1 OUT
VCR2 OUT
NJM2296
IC701
+6dB
MONITOR OUT
0dB
VSX-39TX, VSX-37TX, VSX-36TX
MR OUT
NJM2279 IC731
+6dB
VSX-39TX, VSX-37TX, VSX-36TX
VSX-D909S
S-yes
S-no
TC4053 (1/3)
IC751
CLAMP
0dB
OSD (LC74782)
IC701
CN702
P
TC4053 (2/3)
IC701
SYNC (INT/EXT)
TO U-COM
CHARACTER


D
MASTER VOLUME
DIRECT : −12dB
OTHERS : −22dB (TRIM 0dB)
IC108
TC9284
PREAMP FL/FRch
DIRECT : +10dB
EXT IN : +20dB
OTHERS : +24dB
PREAMP Cch
EXT IN : +20dB
OTHERS : +24dB
SWch
DIRECT : +13dB
EXT IN : +23dB
OTHERS : +27dB
PREAMP SL/SRch
EXT IN : +20dB
OTHERS : +24dB
IC112
IC114
IC113
IC107
GND
CN109
IC104
TC9163
DIRECT
DSP
5.1
FL/FR
C/SW
SL/SR
IC105
LOUDNESS
100Hz +3dB
1KHz +0dB
10kHz +3dB
Q271
CN104
CN103
U-COM
FAN WATT DET
IC115
E
IC7501, IC7502
LIMITER
VCA
+3.5 ~ +8.5dB
(Normally : +8.5dB)
ATT −8.5dB
FL/FR ch POWER AMP
29dB
CN501
Q510
MUTE
CN502
IC7541, IC7542
C ch POWER AMP
Q550
IC7601, IC7602
SL/SR ch POWER AMP
Q610
F
G
CN2001
Q2501
Q2524
Q2541
Q2544
Q2601
Q2504
HB
HC
HA
R2512
R2552
R2612
Y9
Y11
Y12
CN3003
RY3105
RY3101
RY3103
RY3104
RY3102
CN7201
HEADPHONE
JA7201
R
SPEAKER A
FL/FRch
Cch
SL/SRch
SPEAKER B
PREOUT
FL/FRch
C/SWch
SL/SRch
Q107
Q108
Q111
Q112
Q109
Q110
Q
CN804
S det
IC851
S-yes
S-no
IC852
TC4053 (1/3)
H. P. F
SYNC-yes
SYNC-no
TC4053 (2/3)
CHARA-no
CHARA-yes
TC4053 (3/3)
NJM2296
+6dB
IC801
IC802
Y
C
TC4051 (S1/S2)
DVD/LD
TV/SAT
VCR1
VCR2
VIDEO
CN7201
VCR1 OUT
VCR2 OUT
0dB
MONITOR OUT

3.2 OVERALL WIRING CONNECTION DIAGRAM

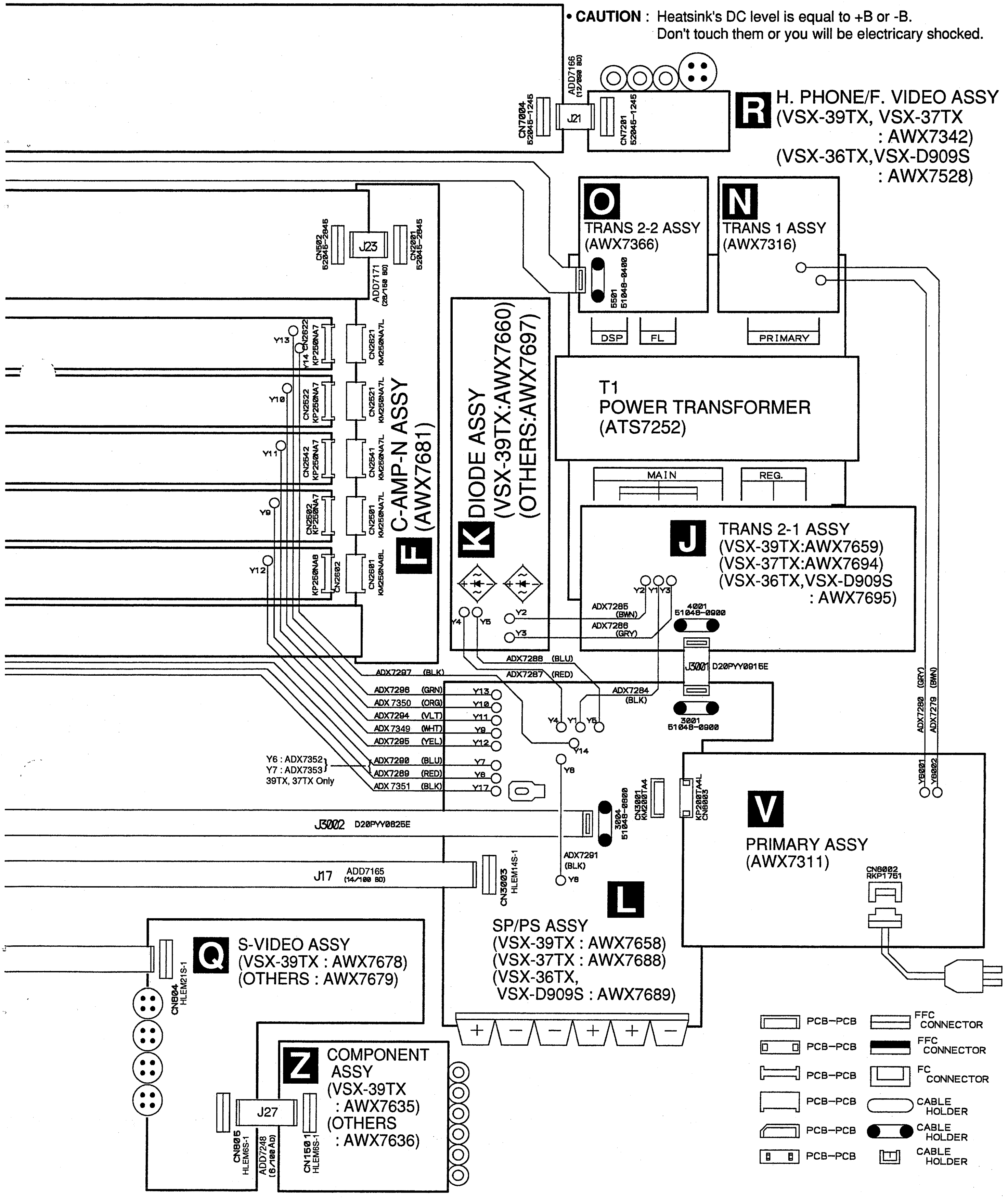

T ROTARY ENCODER ASSY
(VSX-39TX, VSX-37TX : AWX7328)
(VSX-36TX, VSX-D909S : AWX7726)
CN7101 52044-0645
J20 ADD7167 (06/120 BD)
CN7002 52045-0645
S DISPLAY ASSY
(VSX-39TX, VSX-37TX : AWX7698)
(VSX-36TX : AWX7699)
(VSX-D909S : AWX7700)
U VOLUME ASSY (AWX7367)
CN7301 52045-0645
J19 ADD7168 (06/200 BD)
52045-0645 CN7003
CN7005 52045-0545
CN7001 52045-3245
VSX-39TX, VSX-37TX ONLY
J5501 D20PYY0445E
E (E 1/2, E 2/2)
V-AMP ASSY (VSX-39TX : AWX7729)
(VSX-37TX, VSX36TX : AWX7309)
(VSX-D909S : AWX7409)
AA
HLEM9S-1 CN8002
ADD7249 J28
CN8003 HLEM9S-1
AB
2CH I/O PJ ASSY
(VSX-39TX:AWX7634)
(OTHERS:AWX7646)
CN8001 HLEM13S-1
TRIM ASSY (AWX7655)
J26 ADD7251 (13/500 AD)
CN9501 HLEM13S-1
ADD7159 (32/520 BD) J11
J12 ADD7160 (23/110 BD)
CN501 52045-2345
CN904 52044-3245
CN105 52044-2345
5009 51048-0400
CN9571 HLEM7S-1
J13 ADD7161 (07/150 BD)
CN903 52044-0745
Y (Y 1/5- Y 5/5)
DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)
CN9802 KP200TA9L
CN5006 KM200TA9
CN9801 KP200TA17L
CN5007 KM200TA17
ADD7254 (06/420 BD) J14
CN908 52045-0545
D (D 1/3- D 3/3)
MAIN CONTROL ASSY
(VSX-39TX : AWX7705)(VSX-37TX : AWX7706)
(VSX-D909S : AWX7708)(VSX-36TX : AWX7707)
CN901 KP200TA15L
CN5005 KM200TA15
CN920 KP200TA7L
CN5008 KM200TA7
CN104 KP200IA16L
CN5004 KM200IA16
CN108 KP200TA9L
CN5003 KM200TA9
G C-AMP-P ASSY (AWX7680)
CN2624 KM250NA5L
KP250NA5 CN2623
HE OUTPUT-SR ASSY (AWX7686)
CN2524 KM250NA5L
KP250NA5 CN2523
HD OUTPUT-FR ASSY (AWX7683)
CN2544 KM250NA5L
KP250NA5 CN2543
HC OUTPUT-C ASSY (AWX7684)
CN2504 KM250NA5L
KP250NA5 CN2503
HB OUTPUT-FL ASSY (AWX7682)
CN2604 KM250NA5L
KP250NA5 CN2603
HA OUTPUT-SL ASSY (AWX7685)
Y17 Y6 Y7
I VL-TERMINAL ASSY (AWX7657)
CN9803 HLEM13S-1
CN9804 KM250MA3
ADD7250 (13/200 AD) J22
ADX7250-A J24
KM250MA3 CN1250
VSX-39TX, VSX-37TX ONLY
M REGULATOR ASSY (AWX7310)
CN5001 52151-0610
CN5002 52045-1445
CN1201 HLEM13S-1
CN905 52045-2645
J15 ADD7163 (26/100 BD)
CN701 52045-2645
CN702 52045-2145
J18
ADD7164 (21/150 BD)
OPT OUT ASSY (AWX7643)
CN1202 HLEM4S-1
CN1271 HLEM4S-1
J29
ADD7247 (4/120 BD)
X
RF / DIGITAL INASSY
(VSX-39TX:AWX7637)
(DSX-37TX:AWX7638)
(OTHERS:AWX7642)
W
FM/AM TUNER UNIT (AXX7046)
J16 ADD7169 (13/200 AD)
CN902 HLEM13R
CN103 KM200TA10
CN1302 KP200TA10L
CN101 KM200TA20
CN1353 KP200TA20L
C CONNECTION ASSY (AWX7313)
CN1301 KM200TA8
CN1352 KM200TA4
CN1351 KM200TA18
KP200TA8L CN1101
KP200TA4L CN1002
KP200TA18L CN1001
A-PINJACK ASSY
P VIDEO ASSY
(VSX-39TX : AWX7307)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7394)
+ - - +

A EXTRA-5.1 ASSY (VSX-39TX : AWX7314)
EXTERNAL IN ASSY (OTHERS : AWX7398)

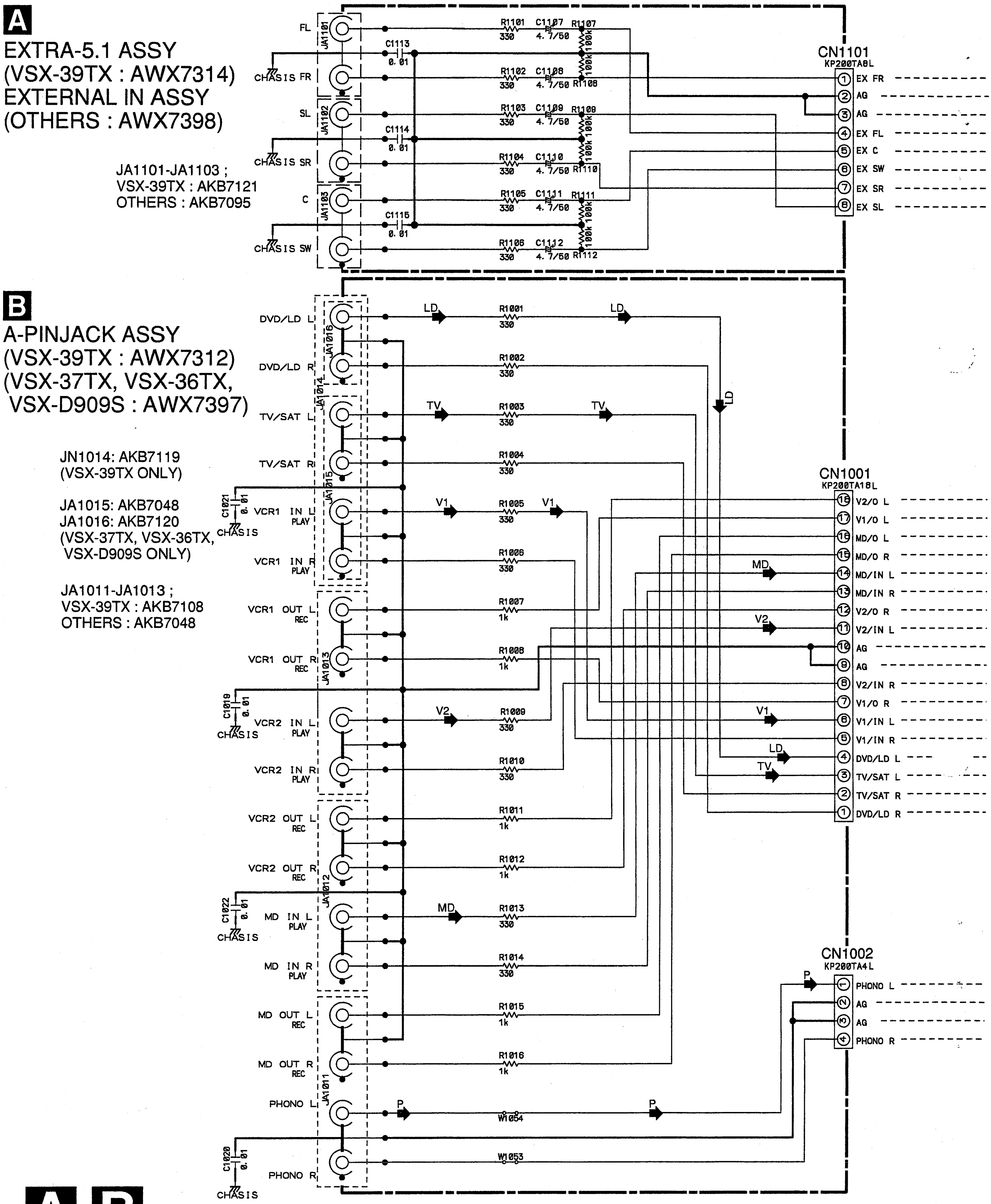
B A-PINJACK ASSY (VSX-39TX : AWX7312)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7397)

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

• **CAUTION** : Heatsink's DC level is equal to +B or -B.
Don't touch them or you will be electricary shocked.


R H. PHONE/F. VIDEO ASSY (VSX-39TX, VSX-37TX : AWX7342) (VSX-36TX,VSX-D909S : AWX7528)
CN7004 52045-1245
J21
ADD7166 (12/080 BD)
CN7201 52045-1245
O TRANS 2-2 ASSY (AWX7366)
5501 51048-0400
DSP
FL
N TRANS 1 ASSY (AWX7316)
PRIMARY
T1 POWER TRANSFORMER (ATS7252)
MAIN
REG.
J TRANS 2-1 ASSY (VSX-39TX:AWX7659) (VSX-37TX:AWX7694) (VSX-36TX,VSX-D909S : AWX7695)
Y2 Y1 Y3
ADX7285 (BWN)
ADX7286 (GRY)
4001 51048-0900
J3001 D20PYY0915E
3001 51048-0900
ADX7284 (BLK)
K DIODE ASSY (VSX-39TX:AWX7660) (OTHERS:AWX7697)
Y4 Y5 Y2 Y3
ADX7288 (BLU)
ADX7287 (RED)
F C-AMP-N ASSY (AWX7681)
CN502 52045-2845
J23
ADD7171 (28/160 BD)
CN2001 52045-2845
Y13 Y14 CN2622 KP250NA7
CN2621 KM250NA7L
Y10 CN2522 KP250NA7
CN2521 KM250NA7L
Y11 CN2542 KP250NA7
CN2541 KM250NA7L
Y9 CN2502 KP250NA7
CN2501 KM250NA7L
Y12 KP250NA8 CN2602
CN2601 KM250NA8L
ADX7297 (BLK)
ADX7296 (GRN) Y13
ADX 7350 (ORG) Y10
ADX7294 (VLT) Y11
ADX 7349 (WHT) Y9
ADX7295 (YEL) Y12
ADX7290 (BLU) Y7
ADX7289 (RED) Y6
ADX 7351 (BLK) Y17
Y6 : ADX7352
Y7 : ADX7353
39TX, 37TX Only
Y4 Y1 Y5
Y14
Y8
J3002 D20PYY0825E
3004 51048-0600
CN3001 KM200TA4
ADX7291 (BLK)
Y8
J17 ADD7165 (14/100 BD)
CN3003 HLEM14S-1
L SP/PS ASSY (VSX-39TX : AWX7658) (VSX-37TX : AWX7688) (VSX-36TX, VSX-D909S : AWX7689)
+ − − + + −
KP200TA4L CN8003
V PRIMARY ASSY (AWX7311)
ADX7280 (GRY)
ADX7279 (BWN)
Y8001 Y8002
CN8002 RKP1751
Q S-VIDEO ASSY (VSX-39TX : AWX7678) (OTHERS : AWX7679)
CN804 HLEM21S-1
Z COMPONENT ASSY (VSX-39TX : AWX7635) (OTHERS : AWX7636)
CN805 HLEM6S-1
J27
ADD7248 (6/100 AD)
CN1501 HLEM6S-1
PCB−PCB
PCB−PCB
PCB−PCB
PCB−PCB
PCB−PCB
PCB−PCB
FFC CONNECTOR
FFC CONNECTOR
FC CONNECTOR
CABLE HOLDER
CABLE HOLDER
CABLE HOLDER
A
B
C
D

3.3 EXTRA-5.1 (EXTERNAL IN), A-PINJACK and CONNECTION ASSYS



A

EXTRA-5.1 ASSY
(VSX-39TX : AWX7314)
EXTERNAL IN ASSY
(OTHERS : AWX7398)

JA1101-JA1103 ;
VSX-39TX : AKB7121
OTHERS : AKB7095

B

A-PINJACK ASSY
(VSX-39TX : AWX7312)
(VSX-37TX, VSX-36TX,
VSX-D909S : AWX7397)

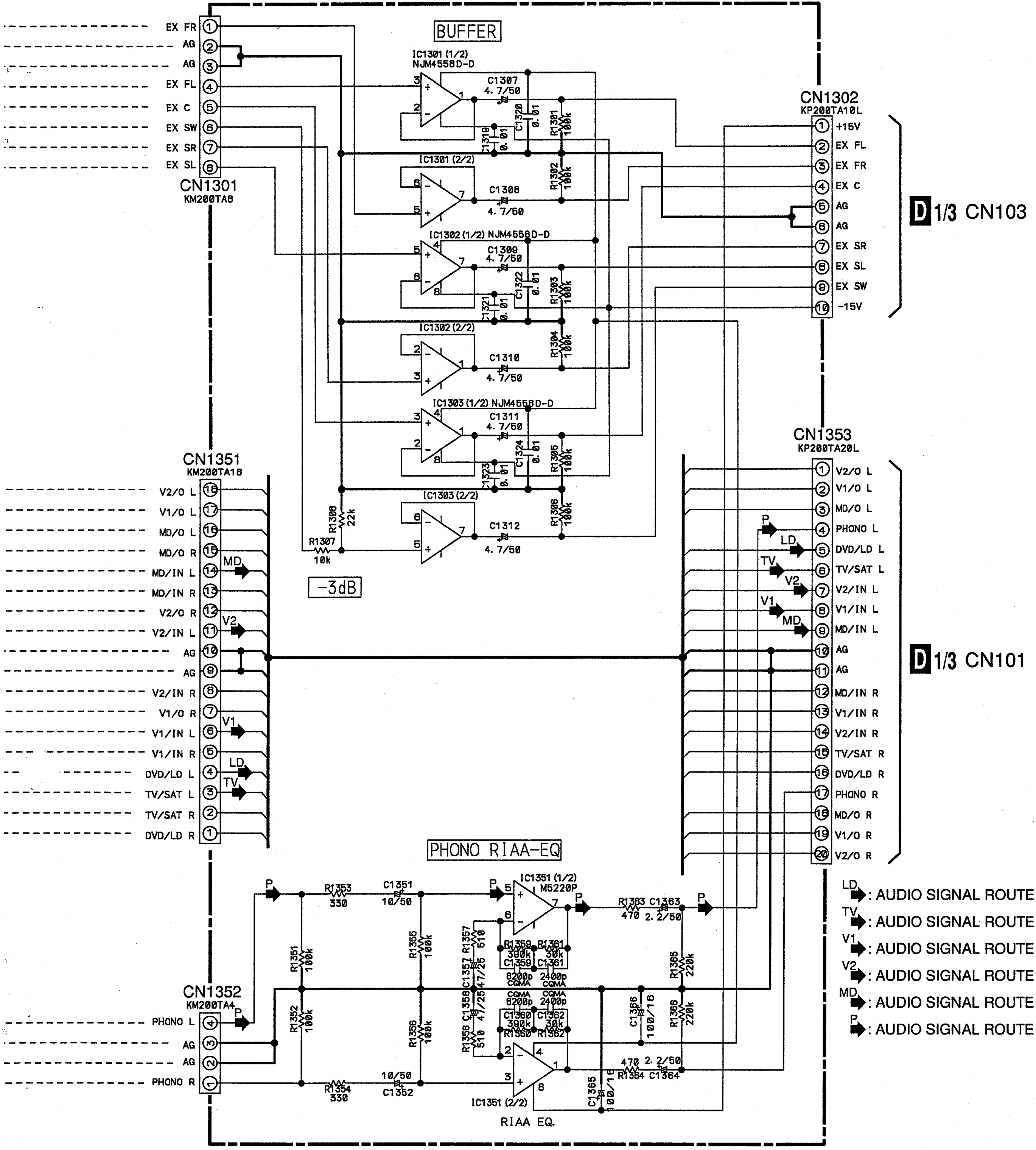
JN1014: AKB7119
(VSX-39TX ONLY)

JA1015: AKB7048
JA1016: AKB7120
(VSX-37TX, VSX-36TX,
VSX-D909S ONLY)

JA1011-JA1013 ;
VSX-39TX : AKB7108
OTHERS : AKB7048

A
B
C
D
FL
CHASIS FR
SL
CHASIS SR
C
CHASIS SW
JA1101
JA1102
JA1103
C1113 0.01
C1114 0.01
C1115 0.01
R1101 330
R1102 330
R1103 330
R1104 330
R1105 330
R1106 330
C1107 4.7/50
C1108 4.7/50
C1109 4.7/50
C1110 4.7/50
C1111 4.7/50
C1112 4.7/50
R1107 100k
R1108 100k
R1109 100k
R1110 100k
R1111 100k
R1112 100k
CN1101
KP200TA8L
① EX FR
② AG
③ AG
④ EX FL
⑤ EX C
⑥ EX SW
⑦ EX SR
⑧ EX SL
DVD/LD L
DVD/LD R
TV/SAT L
TV/SAT R
VCR1 IN L PLAY
VCR1 IN R PLAY
VCR1 OUT L REC
VCR1 OUT R REC
VCR2 IN L PLAY
VCR2 IN R PLAY
VCR2 OUT L REC
VCR2 OUT R REC
MD IN L PLAY
MD IN R PLAY
MD OUT L REC
MD OUT R REC
PHONO L
PHONO R
CHASIS
JA1016
JA1014
JA1015
JA1013
JA1012
JA1011
C1021 0.01
C1019 0.01
C1022 0.01
C1020 0.01
LD
TV
V1
V2
MD
P
R1001 330
R1002 330
R1003 330
R1004 330
R1005 330
R1006 330
R1007 1k
R1008 1k
R1009 330
R1010 330
R1011 1k
R1012 1k
R1013 330
R1014 330
R1015 1k
R1016 1k
W1054
W1053
CN1001
KP200TA18L
⑱ V2/O L
⑰ V1/O L
⑯ MD/O L
⑮ MD/O R
⑭ MD/IN L
⑬ MD/IN R
⑫ V2/O R
⑪ V2/IN L
⑩ AG
⑨ AG
⑧ V2/IN R
⑦ V1/O R
⑥ V1/IN L
⑤ V1/IN R
④ DVD/LD L
③ TV/SAT L
② TV/SAT R
① DVD/LD R
CN1002
KP200TA4L
① PHONO L
② AG
③ AG
④ PHONO R

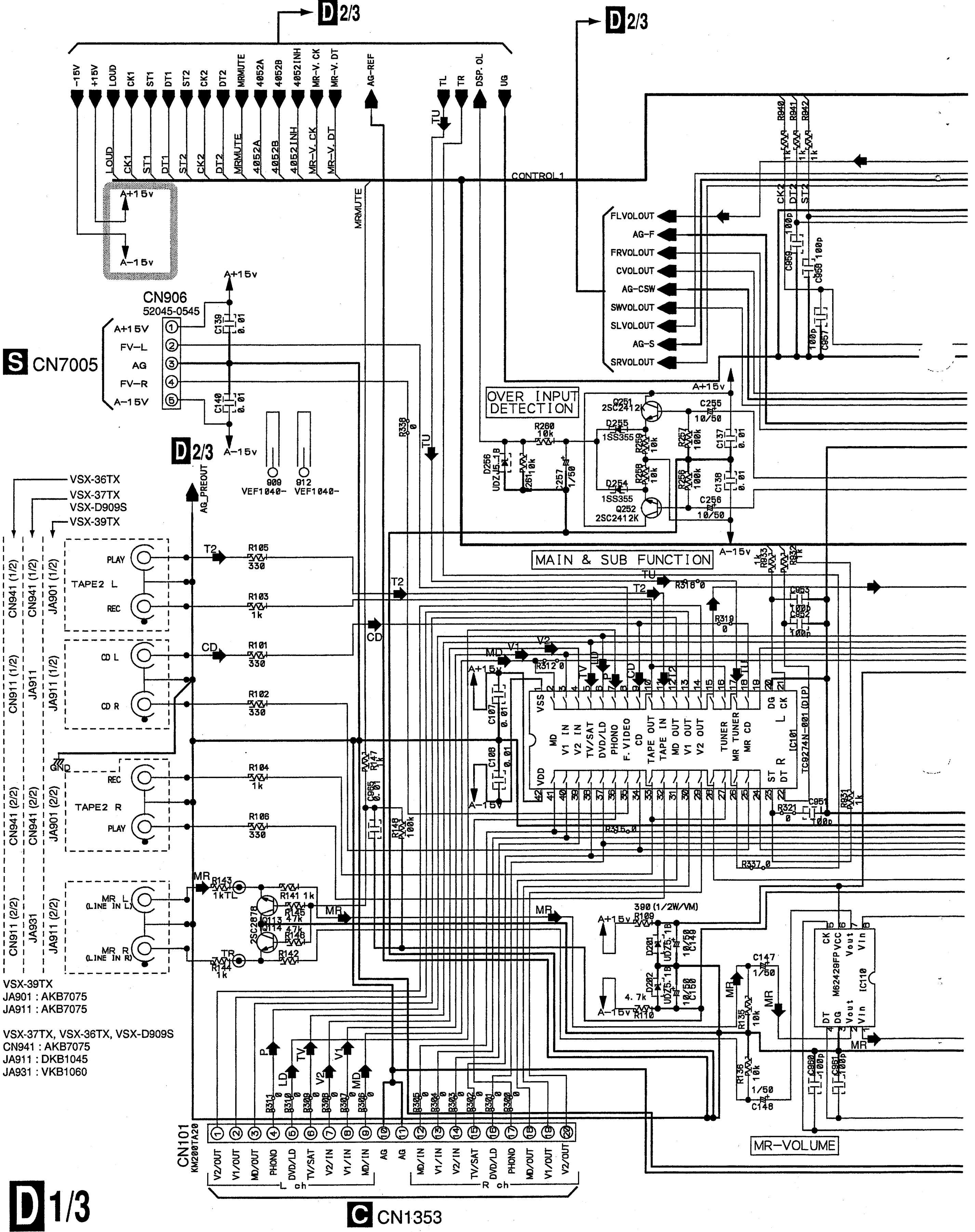
C CONNECTION ASSY (AWX7313)


BUFFER
EX FR ①
AG ②
AG ③
EX FL ④
EX C ⑤
EX SW ⑥
EX SR ⑦
EX SL ⑧
CN1301
KM200TA8
IC1301 (1/2)
NJM4558D-D
C1307
4.7/50
C1320
0.01
C1319
0.01
R1301
100k
IC1301 (2/2)
C1308
4.7/50
R1302
100k
IC1302 (1/2) NJM4558D-D
C1309
4.7/50
C1322
0.01
C1321
0.01
R1303
100k
IC1302 (2/2)
C1310
4.7/50
R1304
100k
IC1303 (1/2) NJM4558D-D
C1311
4.7/50
C1324
0.01
C1323
0.01
R1305
100k
IC1303 (2/2)
C1312
4.7/50
R1306
100k
R1308
22k
R1307
10k
-3dB
CN1302
KP200TA10L
① +15V
② EX FL
③ EX FR
④ EX C
⑤ AG
⑥ AG
⑦ EX SR
⑧ EX SL
⑨ EX SW
⑩ -15V
D 1/3 CN103
CN1351
KM200TA18
V2/O L ⑱
V1/O L ⑰
MD/O L ⑯
MD/O R ⑮
MD/IN L ⑭
MD/IN R ⑬
V2/O R ⑫
V2/IN L ⑪
AG ⑩
AG ⑨
V2/IN R ⑧
V1/O R ⑦
V1/IN L ⑥
V1/IN R ⑤
DVD/LD L ④
TV/SAT L ③
TV/SAT R ②
DVD/LD R ①
MD
V2
V1
LD
TV
CN1353
KP200TA20L
① V2/O L
② V1/O L
③ MD/O L
④ PHONO L
⑤ DVD/LD L
⑥ TV/SAT L
⑦ V2/IN L
⑧ V1/IN L
⑨ MD/IN L
⑩ AG
⑪ AG
⑫ MD/IN R
⑬ V1/IN R
⑭ V2/IN R
⑮ TV/SAT R
⑯ DVD/LD R
⑰ PHONO R
⑱ MD/O R
⑲ V1/O R
⑳ V2/O R
P
LD
TV
V2
V1
MD
D 1/3 CN101
PHONO RIAA-EQ
R1353
330
C1351
10/50
IC1351 (1/2)
M5220P
R1363
470
C1363
2.2/50
R1351
100k
R1355
100k
R1357
510
C1357
47/25
R1359
390k
R1361
30k
C1359
6200p
CQMA
C1361
2400p
CQMA
R1365
220k
C1358
47/25
R1358
510
C1360
6200p
CQMA
C1362
2400p
CQMA
R1360
390k
R1362
30k
C1366
100/16
R1366
220k
R1352
100k
R1356
100k
CN1352
KM200TA4
PHONO L ④
AG ③
AG ②
PHONO R ①
R1354
330
C1352
10/50
470
R1364
2.2/50
C1364
C1365
100/16
IC1351 (2/2)
RIAA EQ.

LD ➡: AUDIO SIGNAL ROUTE (LD)
TV ➡: AUDIO SIGNAL ROUTE (TV)
V1 ➡: AUDIO SIGNAL ROUTE (VCR1)
V2 ➡: AUDIO SIGNAL ROUTE (VCR2)
MD ➡: AUDIO SIGNAL ROUTE (MD)
P ➡: AUDIO SIGNAL ROUTE (PHONO)

3.4 MAIN CONTROL ASSY (1/3)

▭ : The power supply is shown with the marked box.


D 2/3
D 2/3
-15V
+15V
LOUD
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
4052A
4052B
4052INH
MR-V. CK
MR-V. DT
AG-REF
TL
TR
DSP. OL
UG
CONTROL 1
A+15v
A-15v
CN906
52045-0545
S CN7005
A+15V
FV-L
AG
FV-R
A-15V
C139 0.01
C140 0.01
909 VEF1040-
912 VEF1040-
D 2/3
AG_PREOUT
FLVOLOUT
AG-F
FRVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
SLVOLOUT
AG-S
SRVOLOUT
OVER INPUT DETECTION
Q251 2SC2412K
Q252 2SC2412K
D255 1SS355
D254 1SS355
D256 UDZ5.1B
R260 10k
C257 1/50
C255 10/50
C256 10/50
C137 0.01
C138 0.01
R940
R941
R942
C959 100p
C958 100p
C957 100p
MAIN & SUB FUNCTION
VSX-36TX
VSX-37TX
VSX-D909S
VSX-39TX
CN941 (1/2)
CN911 (1/2)
JA901 (1/2)
JA911
JA911 (1/2)
CN941 (2/2)
JA901 (2/2)
CN911 (2/2)
JA931
JA911 (2/2)
PLAY
TAPE2 L
REC
CD L
CD R
GND
TAPE2 R
MR L (LINE IN L)
MR R (LINE IN R)
T2
R105 330
R103 1k
CD
R101 330
R102 330
R104 1k
R106 330
MR
R143 1k
TL
TR
R144 1k
R141 1k
R145 47k
R146 47k
R142
Q113 2SC2878
Q114
R147 1k
C965 0.01
R148 100k
C107 0.01
C108 0.01
MD
V1
V2
TV
LD
P
R312 0
R316 0
R319 0
R315 0
R337 0
R321 0
R331 1k
R332 1k
R333 1k
C953 100p
C952 100p
C951 100p
VSS
V1 IN
V2 IN
TV/SAT
DVD/LD
PHONO
F.VIDEO
TAPE OUT
TAPE IN
MD OUT
V1 OUT
V2 OUT
TUNER
MR TUNER
MR CD
DG
CK
L
ST
DT
R
VDD
IC101
TC9274N-001 (DIP)
390 (1/2W/VM)
R109
R110 4.7k
D201 UDZ5.1B
D202 UDZ5.1B
C149 10/50
C150 10/50
C147 1/50
C148 1/50
R135 10k
R136 10k
C960 100p
C961 100p
IC110
M62429FP
CK
DG
VCC
Vout
Vin
DT
MR-VOLUME
R311 0
R310 0
R309 0
R308 0
R307 0
R306 0
R305 0
R304 0
R303 0
R302 0
R301 0
R300 0
CN101
KM200TA20
V2/OUT
V1/OUT
MD/OUT
PHONO
DVD/LD
TV/SAT
V2/IN
V1/IN
MD/IN
AG
L ch
R ch
C CN1353

VSX-39TX
JA901 : AKB7075
JA911 : AKB7075

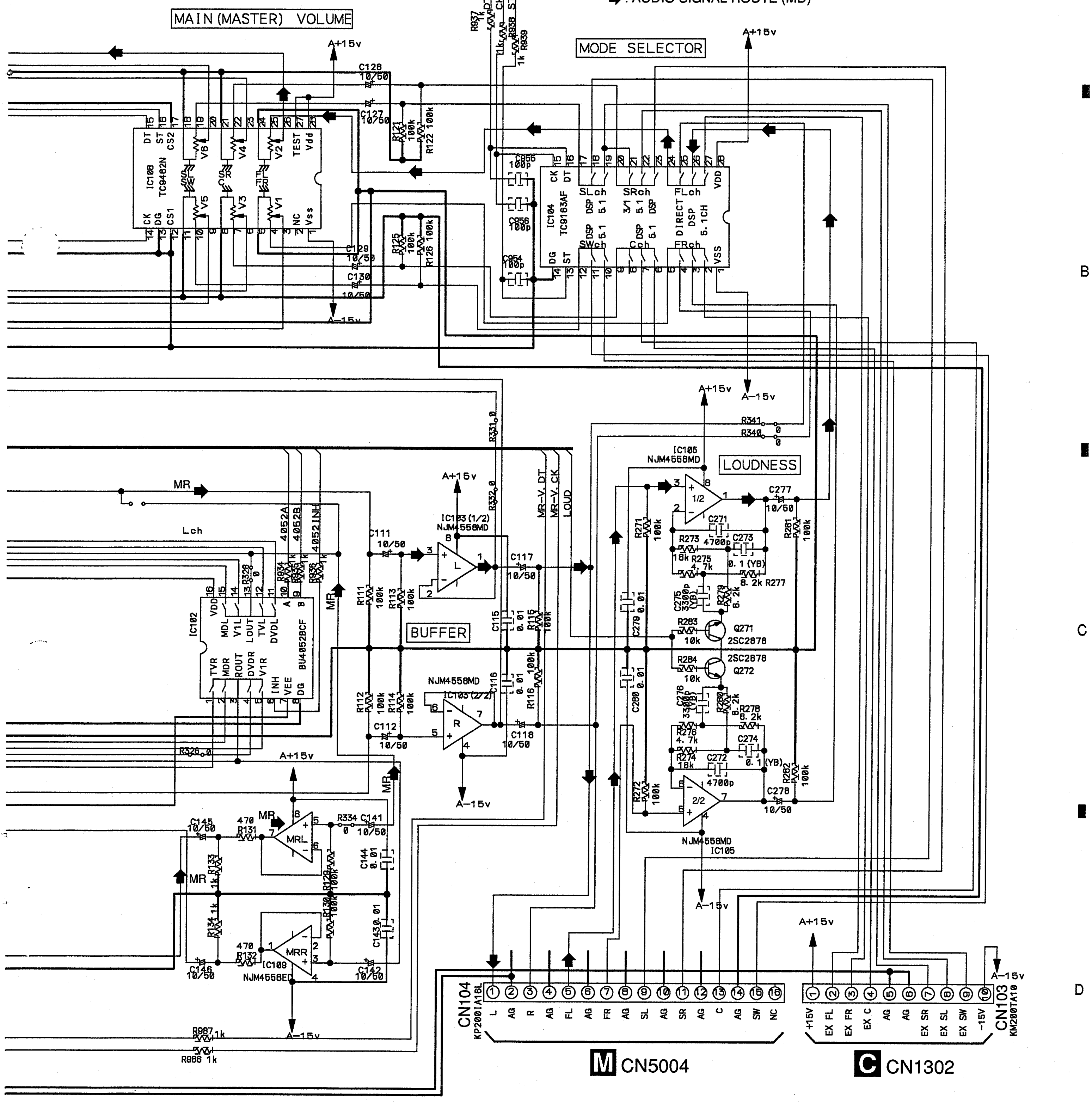
VSX-37TX, VSX-36TX, VSX-D909S
CN941 : AKB7075
JA911 : DKB1045
JA931 : VKB1060

D 1/3

MAIN CONTROL ASSY

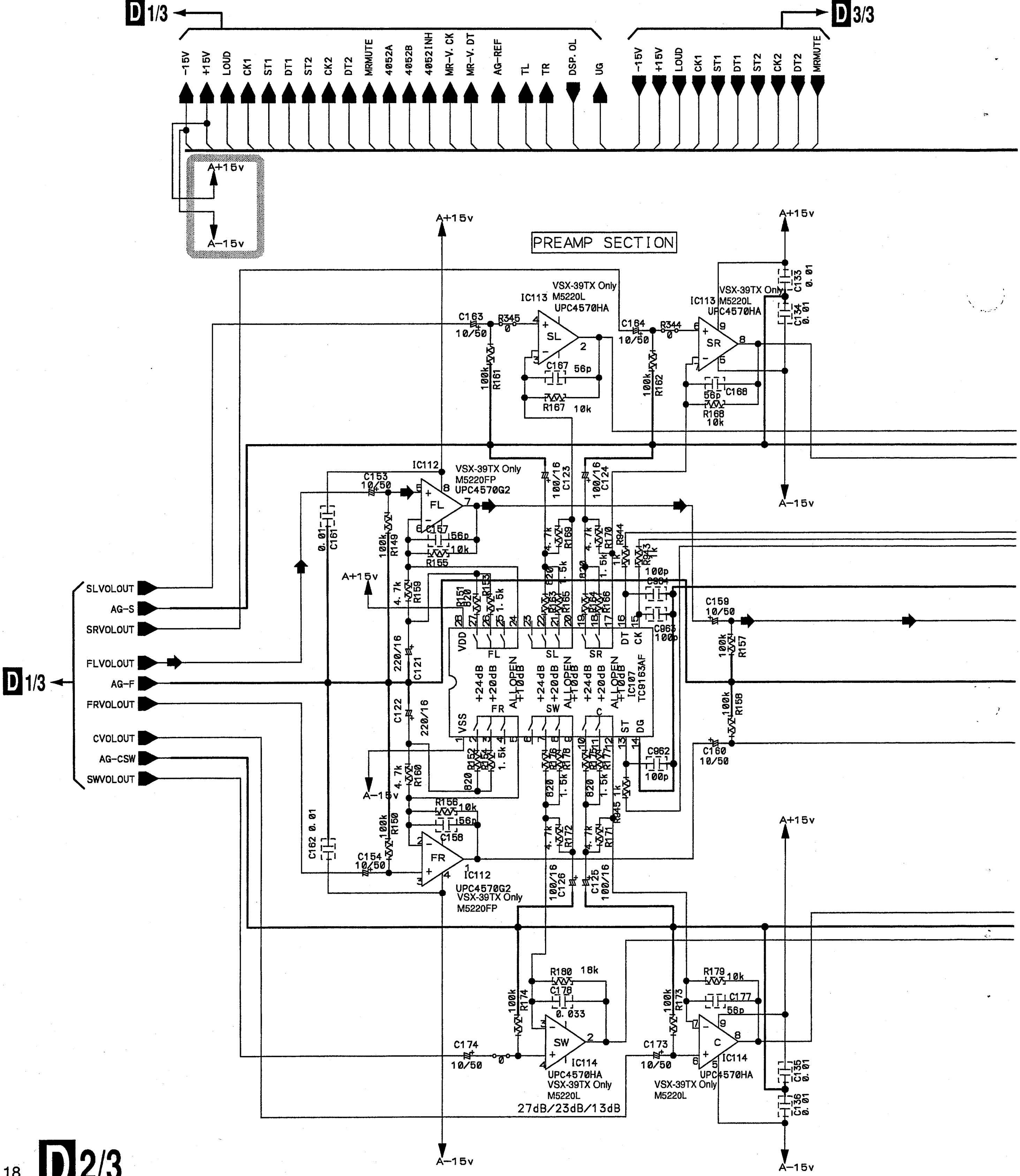
(VSX-39TX : AWX7705)
(VSX-37TX : AWX7706)(VSX-D909S : AWX7708)
(VSX-36TX : AWX7707)

➡ : AUDIO SIGNAL ROUTE
LD ➡ : AUDIO SIGNAL ROUTE (LD)
TV ➡ : AUDIO SIGNAL ROUTE (TV)
V1 ➡ : AUDIO SIGNAL ROUTE (VCR1)
V2 ➡ : AUDIO SIGNAL ROUTE (VCR2)
MD ➡ : AUDIO SIGNAL ROUTE (MD)
P ➡ : AUDIO SIGNAL ROUTE (PHONO)
TU ➡ : AUDIO SIGNAL ROUTE (TUNER)
CD ➡ : AUDIO SIGNAL ROUTE (CD)
T2 ➡ : AUDIO SIGNAL ROUTE (TAPE2)
MR ➡ : AUDIO SIGNAL ROUTE (MR)


MAIN (MASTER) VOLUME
IC108 TC9482N
A+15v
A−15v
C128 10/50
C127 10/50
R121 100k
R122 100k
C129 10/50
C130 10/50
R125 100k
R126 100k
R937 1k
R938 1k
R939 1k
DT1
CK1
ST1
MODE SELECTOR
IC104 TC9163AF
C955 100p
C956 100p
C954 100p
SLch
SRch
FLch
SWch
Cch
FRch
DIRECT DSP 5.1CH
R341 0
R340 0
IC105 NJM4558MD
LOUDNESS
C277 10/50
C271
C273
R271 100k
R273 4700p
R275 4.7k
8.2k R277
0.1 (YB)
C275 3300p
R279 8.2k
C279 0.01
R283 10k
Q271 2SC2878
R284 10k
2SC2878 Q272
C280 0.01
C276 3300p
R280 8.2k
R278 8.2k
R276 4.7k
C274 0.1 (YB)
R274 18k
C272 4700p
R272 100k
C278 10/50
R281 100k
R282 100k
NJM4558MD IC105
MR
Lch
IC102 BU4052BCF
R328 0
R934 10k
R935 1k
R936 1k
4052A
4052B
4052INH
R331 0
R332 0
IC103 (1/2) NJM4558MD
C111 10/50
C117 10/50
R111 100k
R113 100k
BUFFER
C115 0.01
R115 100k
MR-V. DT
MR-V. CK
LOUD
NJM4558MD
IC103 (2/2)
C116 0.01
R116 100k
R112 100k
R114 100k
C112 10/50
C118 10/50
R326 0
C145 10/50
470 R131
MRL
R334 0
C141 10/50
C144 0.01
R133 1k
R129 100k
R134 1k
R130 100k
C143 0.01
470 R132
MRR
IC109 NJM4558ED
C146 10/50
C142 10/50
R987 1k
R986 1k
CN104 KP200IA16L
L AG R AG FL AG FR AG SL AG SR AG C AG SW NC
M CN5004
CN103 KM200TA10
+15V EX FL EX FR EX C AG AG EX SR EX SL EX SW −15V
C CN1302

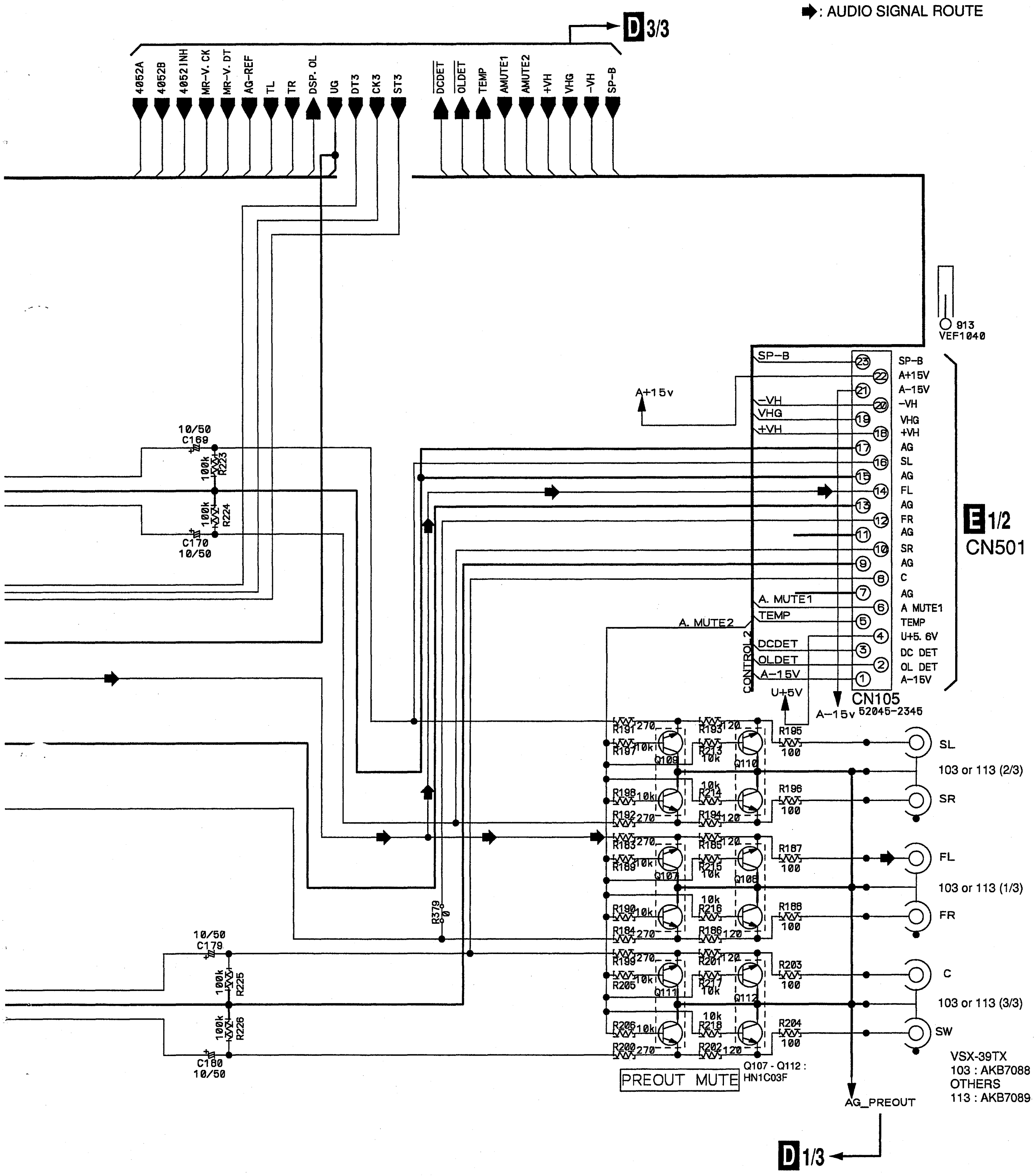
3.5 MAIN CONTROL ASSY (2/3)

D 2/3 MAIN CONTROL ASSY
(VSX-39TX : AWX7705)(VSX-37TX : AWX7706)
(VSX-36TX : AWX7707)(VSX-D909S : AWX7708)

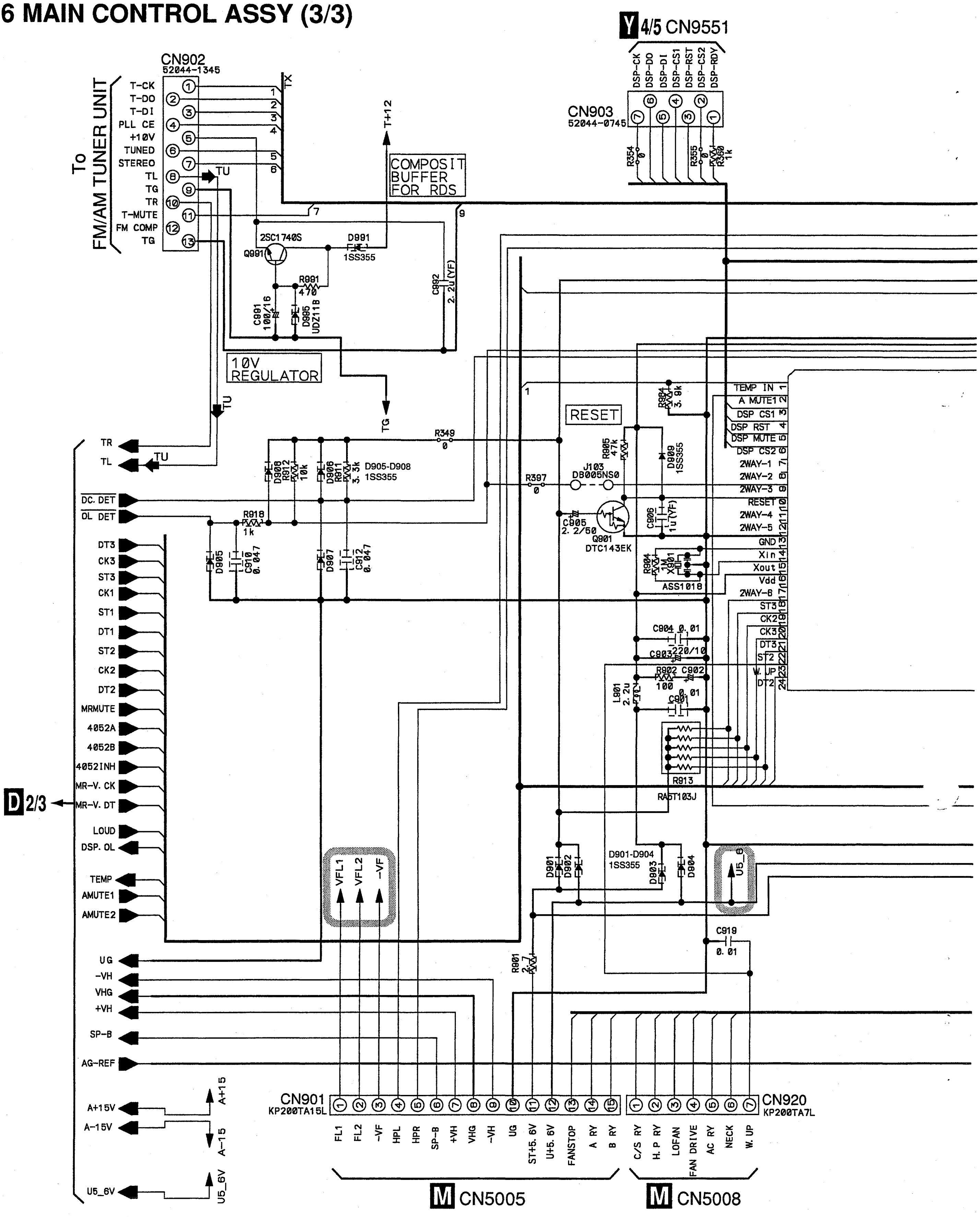

D 1/3
D 3/3
-15V
+15V
LOUD
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
4052A
4052B
4052INH
MR-V. CK
MR-V. DT
AG-REF
TL
TR
DSP. OL
UG
A+15v
A-15v
PREAMP SECTION
IC113
VSX-39TX Only
M5220L
UPC4570HA
SL
SR
C163 10/50
R345 0
C164 10/50
R344 0
R161 100k
R162 100k
C167 56p
R167 10k
C168 56p
R168 10k
C133 0.01
C134 0.01
IC112
VSX-39TX Only
M5220FP
UPC4570G2
FL
FR
C153 10/50
C154 10/50
C161 0.01
C162 0.01
R149 100k
R150 100k
C157 56p
R155 10k
C158 56p
R156 10k
R159 4.7k
R160 4.7k
C121 220/16
C122 220/16
C123 100/16
C124 100/16
C125 100/16
C126 100/16
R169 4.7k
R170 4.7k
R171 4.7k
R172 4.7k
R151 820
R153 820
R152 820
R154 1.5k
R163 820
R165 1.5k
R164 820
R166 1.5k
R175 820
R176 1.5k
R177 820
R178 1.5k
R943 1k
R944 1k
R945 1k
C963 100p
C964 100p
C965 100p
C962 100p
IC107
TC9163AF
VDD
VSS
+24dB
+20dB
+10dB
ALL OPEN
SW
C
DT
CK
ST
DG
C159 10/50
C160 10/50
R157 100k
R158 100k
SLVOLOUT
AG-S
SRVOLOUT
FLVOLOUT
AG-F
FRVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
IC114
UPC4570HA
VSX-39TX Only
M5220L
R180 18k
C178 0.033
R179 10k
C177 56p
R174 100k
R173 100k
C174 10/50
C173 10/50
27dB/23dB/13dB
C135 0.01
C136 0.01

: The power supply is shown with the marked box.

➡: AUDIO SIGNAL ROUTE


D 3/3
4052A
4052B
4052INH
MR-V.CK
MR-V.DT
AG-REF
TL
TR
DSP.OL
UG
DT3
CK3
ST3
DCDET
OLDET
TEMP
AMUTE1
AMUTE2
+VH
VHG
-VH
SP-B
913
VEF1040
SP-B
A+15v
-VH
VHG
+VH
A. MUTE1
TEMP
A. MUTE2
CONTROL2
DCDET
OLDET
A-15V
U+5V
A-15v
CN105
52045-2345
SP-B
A+15V
A-15V
-VH
VHG
+VH
AG
SL
AG
FL
AG
FR
AG
SR
AG
C
AG
A MUTE1
TEMP
U+5.6V
DC DET
OL DET
A-15V
E 1/2
CN501
10/50
C169
100k
R223
100k
R224
C170
10/50
10/50
C179
100k
R225
100k
R226
C180
10/50
R379
0
R191 270
R197 10k
Q109
R193 120
R213 10k
Q110
R195 100
R198 10k
R192 270
R214 10k
R194 120
R196 100
R183 270
R189 10k
Q107
R185 120
R215 10k
Q108
R187 100
R190 10k
R184 270
R216 10k
R186 120
R188 100
R199 270
R205 10k
Q111
R201 120
R217 10k
Q112
R203 100
R206 10k
R200 270
R218 10k
R202 120
R204 100
PREOUT MUTE
Q107 - Q112 :
HN1C03F
SL
SR
103 or 113 (2/3)
FL
103 or 113 (1/3)
FR
C
103 or 113 (3/3)
SW
VSX-39TX
103 : AKB7088
OTHERS
113 : AKB7089
AG_PREOUT
D 1/3

3.6 MAIN CONTROL ASSY (3/3)

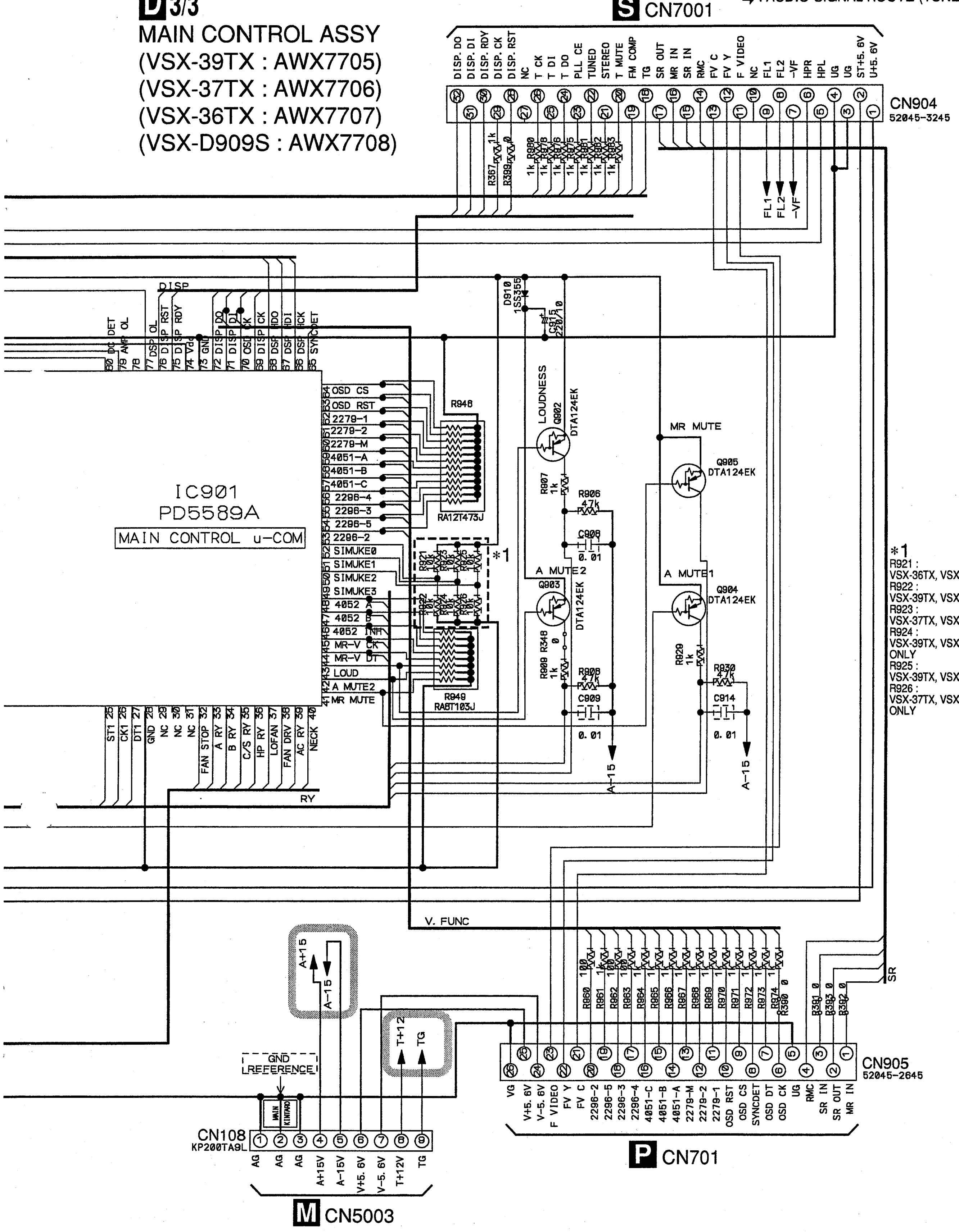

Y 4/5 CN9551
DSP-CK
DSP-DO
DSP-DI
DSP-CS1
DSP-RST
DSP-CS2
DSP-RDY
CN903
52044-0745
R354 0
R355 0
R350 1k
CN902
52044-1345
To FM/AM TUNER UNIT
T-CK
T-DO
T-DI
PLL CE
+10V
TUNED
STEREO
TL
TG
TR
T-MUTE
FM COMP
TG
TX
TU
T+12
COMPOSIT BUFFER FOR RDS
2SC1740S
Q991
D991
1SS355
R991
470
C991
100/16
D995
UDZ11B
C992
2.2u(YF)
10V REGULATOR
TU
TG
R349
0
RESET
R904
3.9k
R905
47k
D909
1SS355
J103
DB005NS0
R397
0
C905
2.2/50
Q901
DTC143EK
C906
1u(YF)
D905-D908
1SS355
D908
R912
10k
D906
R911
3.3k
R918
1k
D905
C910
0.047
D907
C912
0.047
R904
1M
X901
ASS1018
TEMP IN 1
A MUTE1 2
DSP CS1 3
DSP RST 4
DSP MUTE 5
DSP CS2 6
2WAY-1 7
2WAY-2 8
2WAY-3 9
RESET 10
2WAY-4 11
2WAY-5 12
GND 13
Xin 14
Xout 15
Vdd 16
2WAY-6 17
ST3 18
CK2 19
CK3 20
DT3 21
ST2 22
W.UP 23
DT2 24
C904 0.01
C903 220/10
R902 100
C902 0.01
L901 2.2u
C901
R913
RA5T103J
TR
TL
TU
DC. DET
DL DET
DT3
CK3
ST3
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
4052A
4052B
4052INH
MR-V. CK
MR-V. DT
LOUD
DSP. OL
TEMP
AMUTE1
AMUTE2
D 2/3
VFL1
VFL2
-VF
D901
D902
D901-D904
1SS355
D903
D904
U5_6
C919
0.01
R901
2.2k
UG
-VH
VHG
+VH
SP-B
AG-REF
A+15V
A-15V
A+15
A-15
U5_6V
U5_6V
CN901
KP200TA15L
1 FL1
2 FL2
3 -VF
4 HPL
5 HPR
6 SP-B
7 +VH
8 VHG
9 -VH
10 UG
11 ST+5.6V
12 U+5.6V
13 FANSTOP
14 A RY
15 B RY
CN920
KP200TA7L
1 C/S RY
2 H.P RY
3 LOFAN
4 FAN DRIVE
5 AC RY
6 NECK
7 W.UP
M CN5005
M CN5008

: The power supply is shown with the marked box.

TU ➡ : AUDIO SIGNAL ROUTE (TUNER)

D 3/3

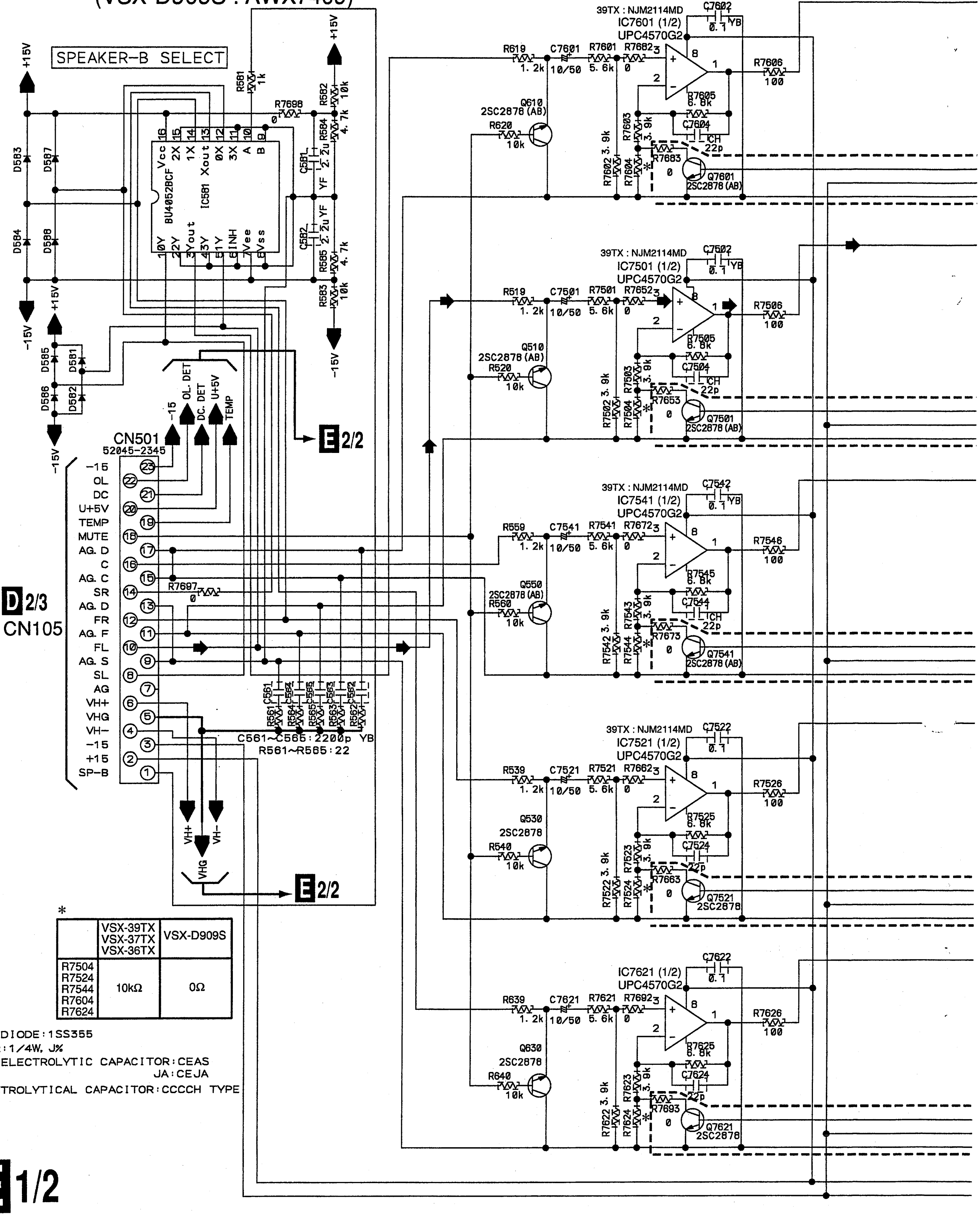
MAIN CONTROL ASSY
(VSX-39TX : AWX7705)
(VSX-37TX : AWX7706)
(VSX-36TX : AWX7707)
(VSX-D909S : AWX7708)


S CN7001
CN904
52045-3245
DISP. DO
DISP. DI
DISP. RDY
DISP. CK
DISP. RST
NC
T CK
T DI
T DO
PLL CE
TUNED
STEREO
T MUTE
FM COMP
TG
SR OUT
MR IN
SR IN
RMC
FV C
FV Y
F VIDEO
NC
FL1
FL2
-VF
HPR
HPL
UG
UG
ST+5.6V
U+5.6V
FL1
FL2
-VF
IC901
PD5589A
MAIN CONTROL u-COM
DISP
D910
1SS355
C915
220/10
LOUDNESS
Q902
DTA124EK
R946
RA12T473J
R949
RAB1103J
*1
A MUTE2
Q903
DTA124EK
MR MUTE
Q905
DTA124EK
A MUTE1
Q904
DTA124EK
C908
0.01
C909
0.01
C914
0.01
A-15
A-15
RY
V. FUNC
SR
A+15
A-15
T+12
TG
GND REFERENCE
MAIN
KINTAND
CN108
KP200TA9L
AG
AG
AG
A+15V
A-15V
V+5.6V
V-5.6V
T+12V
TG
M CN5003
CN905
52045-2645
VG
V+5.6V
V-5.6V
F VIDEO
FV Y
FV C
2296-2
2296-5
2296-3
2296-4
4051-C
4051-B
4051-A
2279-M
2279-2
2279-1
OSD RST
OSD CS
SYNCDET
OSD DT
OSD CK
UG
RMC
SR IN
SR OUT
MR IN
P CN701

*1
R921 :
VSX-36TX, VSX-D909S ONLY
R922 :
VSX-39TX, VSX-37TX ONLY
R923 :
VSX-37TX, VSX-D909S ONLY
R924 :
VSX-39TX, VSX-36TX ONLY
R925 :
VSX-39TX, VSX-D909S ONLY
R926 :
VSX-37TX, VSX-36TX ONLY

3.7 V-AMP ASSY (1/2)

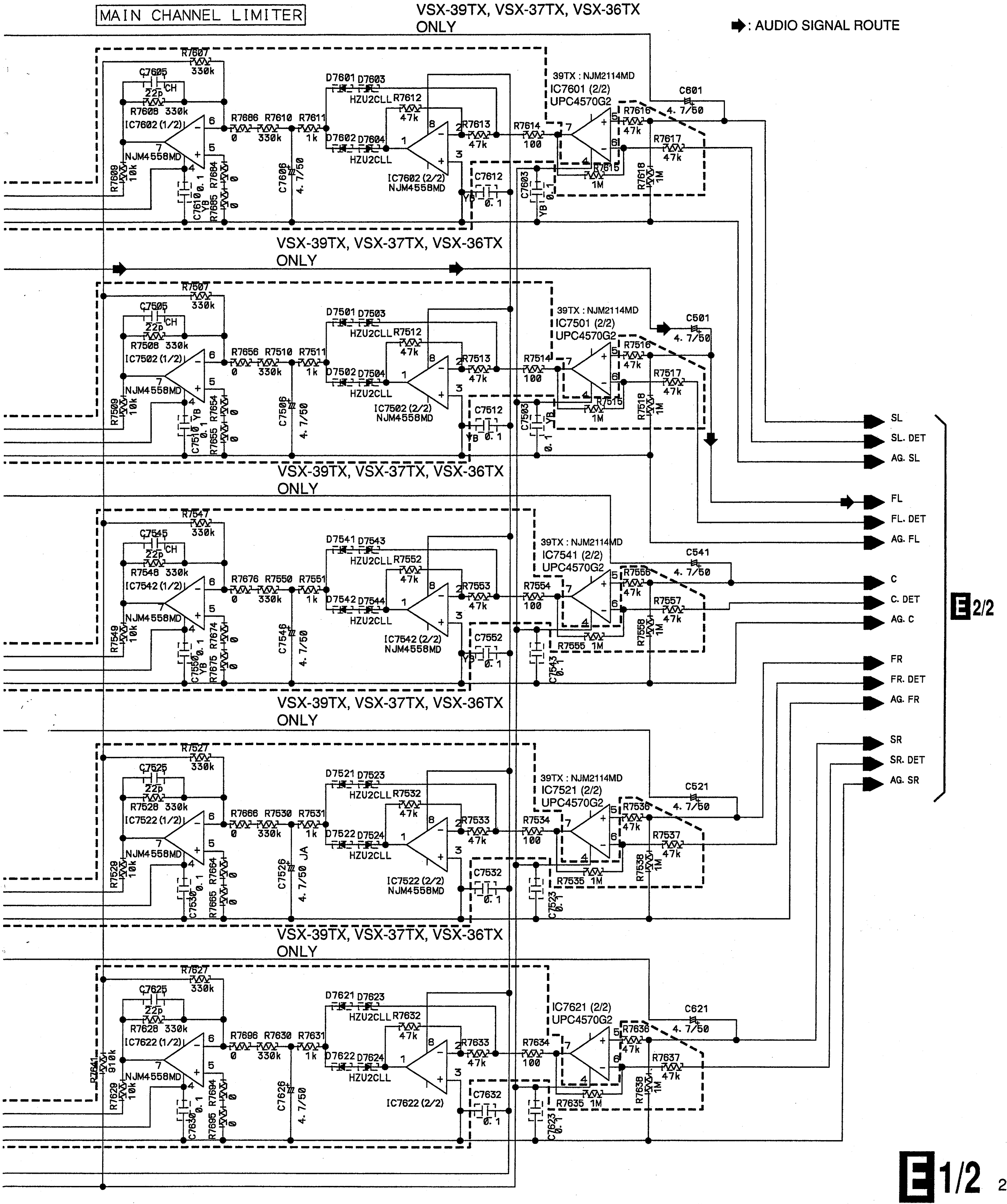
E 1/2 V-AMP ASSY
(VSX-39TX : AWX7729)(VSX-37TX, VSX-36TX : AWX7309)
(VSX-D909S : AWX7409)


SPEAKER-B SELECT
+15V
-15V
D583
D587
D584
D588
D585
D581
D586
D582
IC581
BU4052BCF
Vcc
2X
1X
Xout
0X
3X
A
B
0Y
2Y
Yout
3Y
1Y
INH
Vee
Vss
R581 1k
R582 10k
R584 4.7k
R585 4.7k
R583 10k
R7698 0
C581 2.2u YF
C582 2.2u YF
-15
OL. DET
DC. DET
U+5V
TEMP
CN501
52045-2345
-15
OL
DC
U+5V
TEMP
MUTE
AG. D
C
AG. C
SR
AG. D
FR
AG. F
FL
AG. S
SL
AG
VH+
VHG
VH-
-15
+15
SP-B
D 2/3
CN105
E 2/2
R7697 0
C561~C565:2200p YB
R561~R565:22
VH+
VHG
VH-
E 2/2
39TX : NJM2114MD
IC7601 (1/2)
UPC4570G2
C7602 0.1 YB
R619 1.2k
C7601 10/50
R7601 5.6k
R7682 0
R7606 100
R7605 6.8k
C7604 CH 22p
R7603 3.9k
R7602 3.9k
R7604
R7683 0
Q7601 2SC2878(AB)
Q610 2SC2878(AB)
R620 10k
39TX : NJM2114MD
IC7501 (1/2)
UPC4570G2
C7502 0.1 YB
R519 1.2k
C7501 10/50
R7501 5.6k
R7652 0
R7506 100
R7505 6.8k
C7504 CH 22p
R7503 3.9k
R7502 3.9k
R7504
R7653 0
Q7501 2SC2878(AB)
Q510 2SC2878(AB)
R520 10k
39TX : NJM2114MD
IC7541 (1/2)
UPC4570G2
C7542 0.1 YB
R559 1.2k
C7541 10/50
R7541 5.6k
R7672 0
R7546 100
R7545 6.8k
C7544 CH 22p
R7543 3.9k
R7542 3.9k
R7544
R7673 0
Q7541 2SC2878(AB)
Q550 2SC2878(AB)
R560 10k
39TX : NJM2114MD
IC7521 (1/2)
UPC4570G2
C7522 0.1
R539 1.2k
C7521 10/50
R7521 5.6k
R7662 0
R7526 100
R7525 6.8k
C7524 22p
R7523 3.9k
R7522 3.9k
R7524
R7663 0
Q7521 2SC2878
Q530 2SC2878
R540 10k
IC7621 (1/2)
UPC4570G2
C7622 0.1
R639 1.2k
C7621 10/50
R7621 5.6k
R7692 0
R7626 100
R7625 6.8k
C7624 22p
R7623 3.9k
R7622 3.9k
R7624
R7693 0
Q7621 2SC2878
Q630 2SC2878
R640 10k

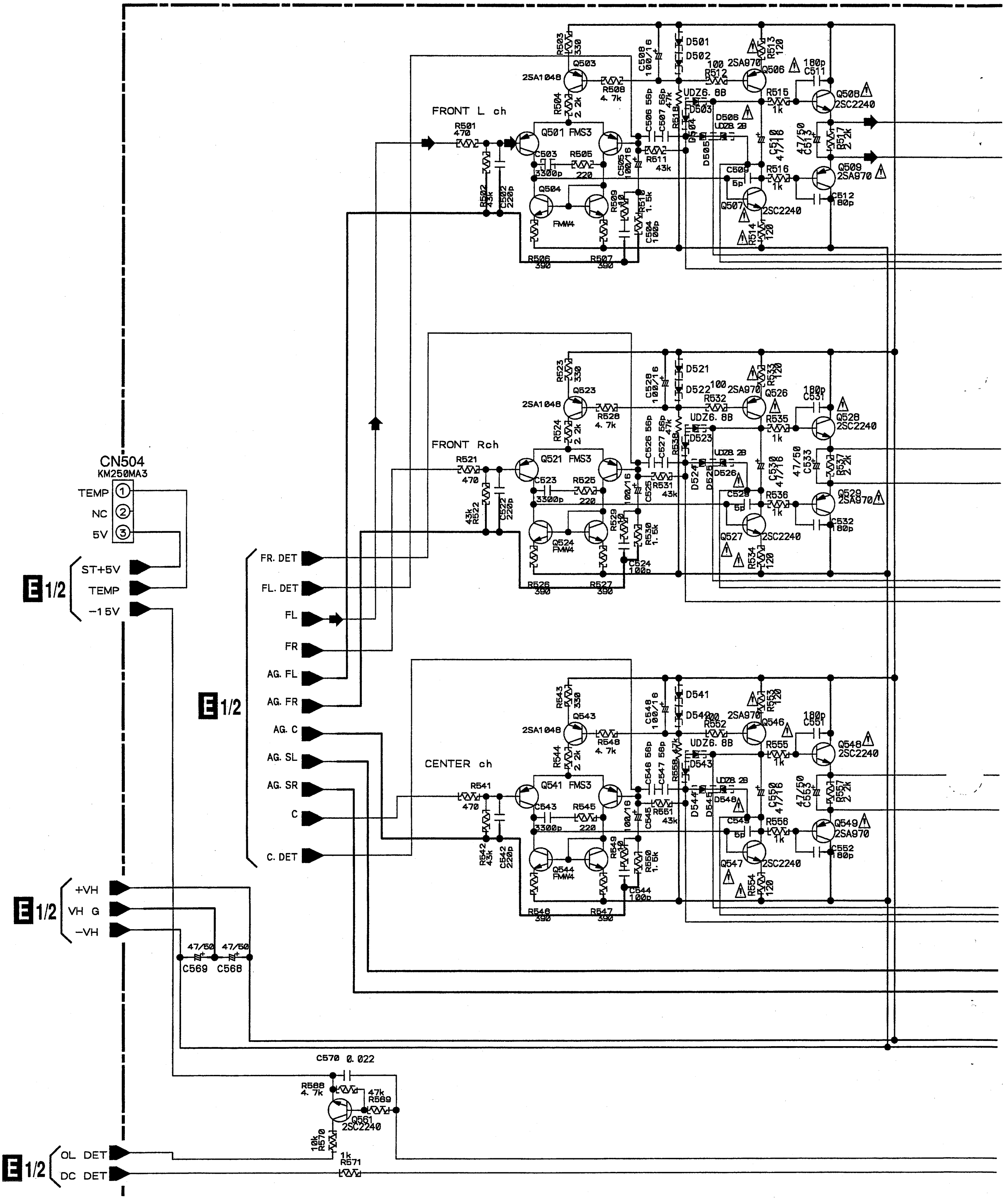
*

	VSX-39TX VSX-37TX VSX-36TX	VSX-D909S
R7504 R7524 R7544 R7604 R7624	10kΩ	0Ω

- ·NO MARK DIODE:1SS355
- ·RESISTOR:1/4W, J%
- ·NO MARK ELECTROLYTIC CAPACITOR:CEAS
  JA:CEJA
- ·NON ELECTROLYTICAL CAPACITOR:CCCCH TYPE

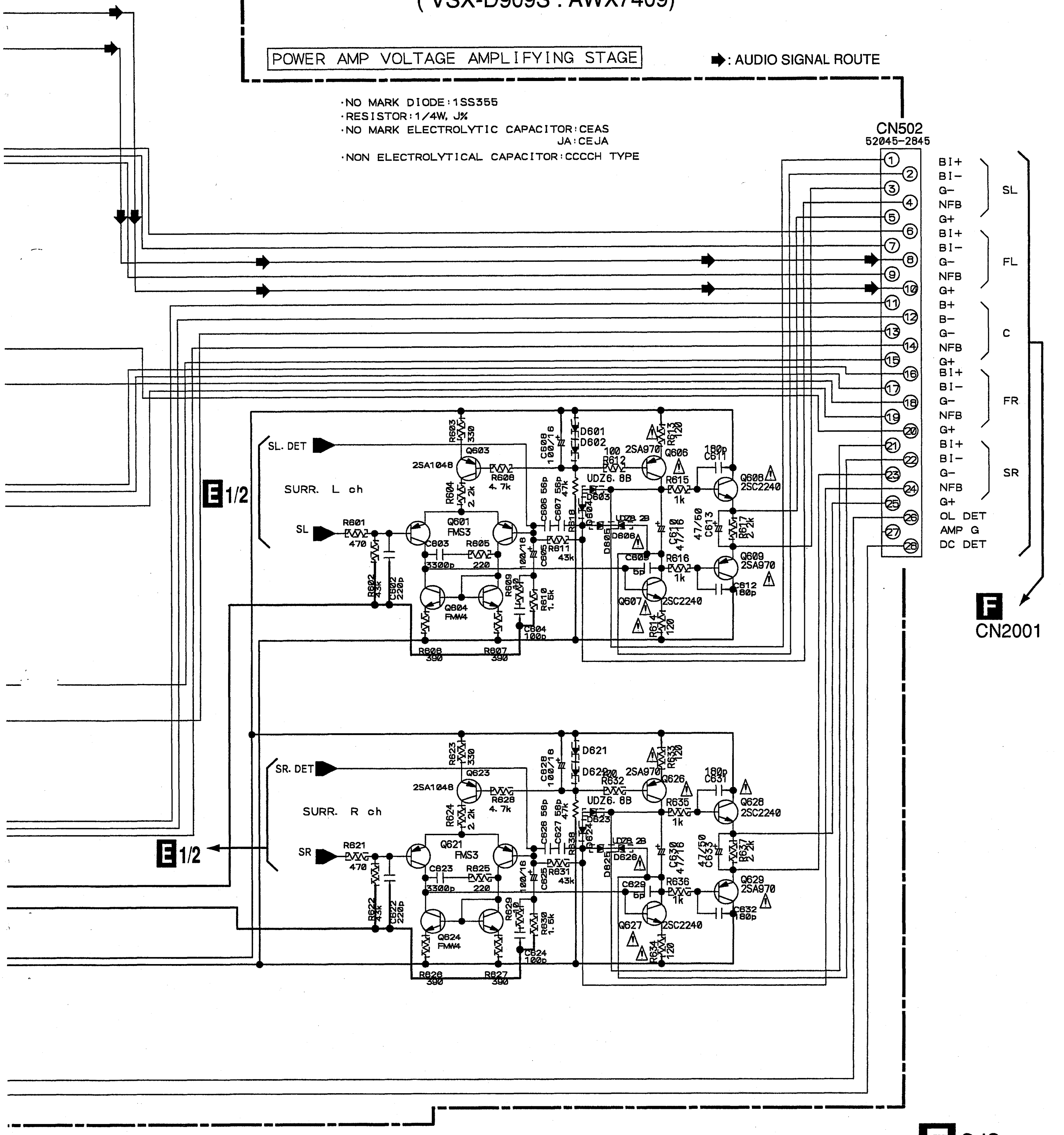

MAIN CHANNEL LIMITER
VSX-39TX, VSX-37TX, VSX-36TX ONLY
➡: AUDIO SIGNAL ROUTE
R7607 330k
C7605 22p CH
R7608 330k
IC7602 (1/2) NJM4558MD
R7609 10k
C7610 0.1 YB
R7684 0
R7685 0
R7686 0
R7610 330k
R7611 1k
C7606 4.7/50
D7601 D7603 HZU2CLL
D7602 D7604 HZU2CLL
R7612 47k
R7613 47k
IC7602 (2/2) NJM4558MD
C7612 0.1 YB
R7614 100
C7603 0.1 YB
39TX : NJM2114MD
IC7601 (2/2) UPC4570G2
R7615 1M
R7616 47k
R7617 47k
R7618 1M
C601 4.7/50
R7507 330k
C7505 22p CH
R7508 330k
IC7502 (1/2) NJM4558MD
R7509 10k
C7510 0.1 YB
R7654 0
R7655 0
R7656 0
R7510 330k
R7511 1k
C7506 4.7/50
D7501 D7503 HZU2CLL
D7502 D7504 HZU2CLL
R7512 47k
R7513 47k
IC7502 (2/2) NJM4558MD
C7512 0.1 YB
R7514 100
C7503 0.1 YB
39TX : NJM2114MD
IC7501 (2/2) UPC4570G2
R7515 1M
R7516 47k
R7517 47k
R7518 1M
C501 4.7/50
R7547 330k
C7545 22p CH
R7548 330k
IC7542 (1/2) NJM4558MD
R7549 10k
C7550 0.1 YB
R7674 0
R7675 0
R7676 0
R7550 330k
R7551 1k
C7546 4.7/50
D7541 D7543 HZU2CLL
D7542 D7544 HZU2CLL
R7552 47k
R7553 47k
IC7542 (2/2) NJM4558MD
C7552 0.1 YB
R7554 100
C7543 0.1
39TX : NJM2114MD
IC7541 (2/2) UPC4570G2
R7555 1M
R7556 47k
R7557 47k
R7558 1M
C541 4.7/50
R7527 330k
C7525 22p
R7528 330k
IC7522 (1/2) NJM4558MD
R7529 10k
C7530 0.1
R7664 0
R7665 0
R7666 0
R7530 330k
R7531 1k
C7526 4.7/50 JA
D7521 D7523 HZU2CLL
D7522 D7524 HZU2CLL
R7532 47k
R7533 47k
IC7522 (2/2) NJM4558MD
C7532 0.1
R7534 100
C7523 0.1
39TX : NJM2114MD
IC7521 (2/2) UPC4570G2
R7535 1M
R7536 47k
R7537 47k
R7538 1M
C521 4.7/50
R7627 330k
C7625 22p
R7628 330k
IC7622 (1/2) NJM4558MD
R7641 910k
R7629 10k
C7630 0.1
R7694 0
R7695 0
R7696 0
R7630 330k
R7631 1k
C7626 4.7/50
D7621 D7623 HZU2CLL
D7622 D7624 HZU2CLL
R7632 47k
R7633 47k
IC7622 (2/2)
C7632 0.1
R7634 100
C7623 0.1
IC7621 (2/2) UPC4570G2
R7635 1M
R7636 47k
R7637 47k
R7638 1M
C621 4.7/50
SL
SL. DET
AG. SL
FL
FL. DET
AG. FL
C
C. DET
AG. C
FR
FR. DET
AG. FR
SR
SR. DET
AG. SR
E 2/2

3.8 V-AMP ASSY (2/2)

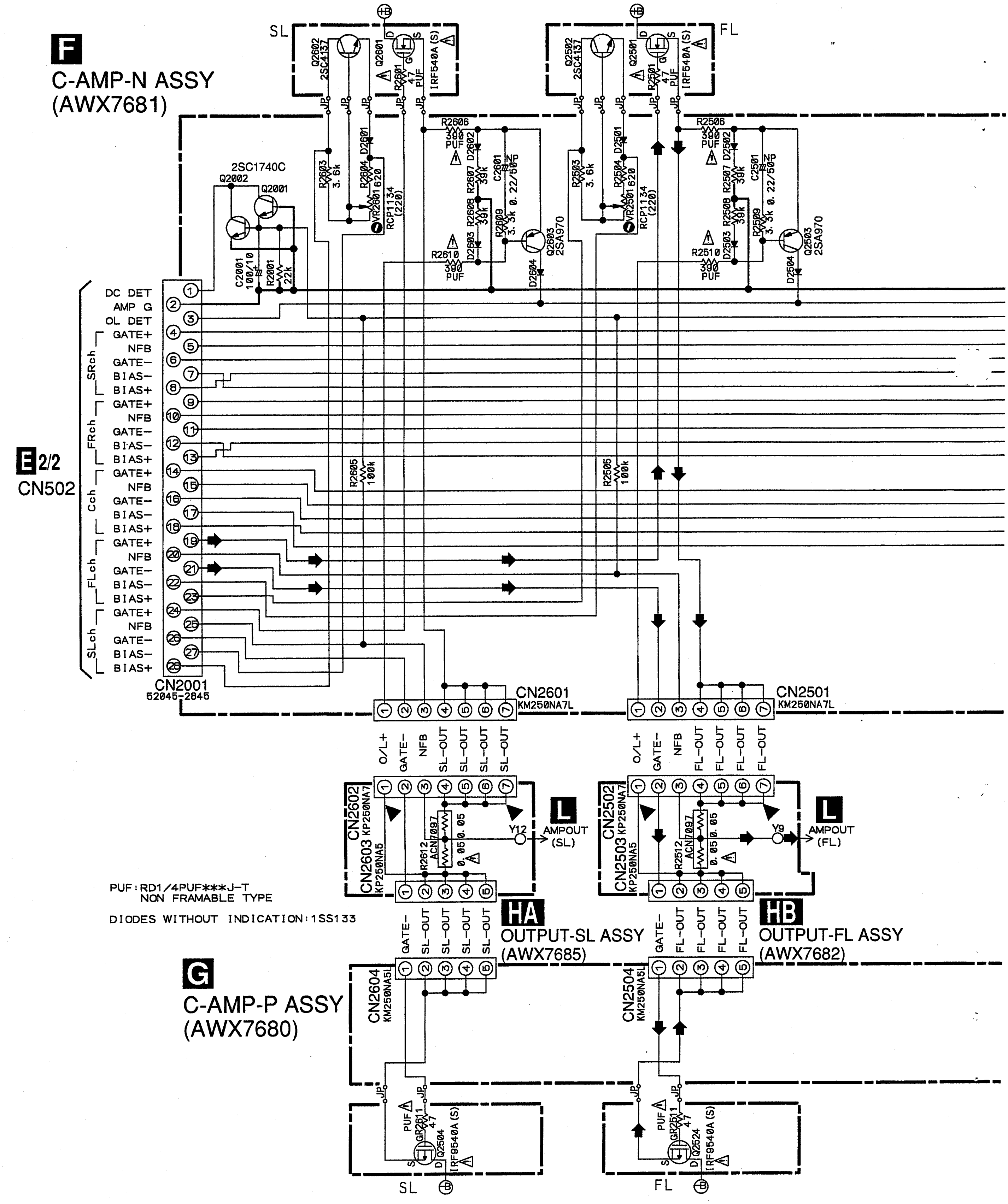

1
2
3
4
A
B
C
D
FRONT L ch
FRONT Rch
CENTER ch
CN504
KM250MA3
TEMP ①
NC ②
5V ③
E 1/2
ST+5V
TEMP
−15V
FR. DET
FL. DET
FL
FR
AG. FL
AG. FR
AG. C
AG. SL
AG. SR
C
C. DET
+VH
VH G
−VH
OL DET
DC DET
Q501 FMS3
Q503 2SA1048
Q504 FMW4
Q506 2SA970
Q507 2SC2240
Q508 2SC2240
Q509 2SA970
R501 470
R502 43k
R503 330
R504 2.2k
R505 220
R506 390
R507 390
R508 4.7k
R509 10
R510 1.5k
R511 43k
R512 100
R513 120
R514 120
R515 1k
R516 1k
R517 2.2k
R518 47k
C502 220p
C503 3300p
C504 100p
C505 100/16
C506 56p
C507 56p
C508 100/16
C509 5p
C510 47/16
C511 180p
C512 180p
C513 47/50
D501
D502
D503
D504
D505
D506 UDZ8.2B
UDZ6.8B
Q521 FMS3
Q523 2SA1048
Q524 FMW4
Q526 2SA970
Q527 2SC2240
Q528 2SC2240
Q529 2SA970
R521 470
R522 43k
R523 330
R524 2.2k
R525 220
R526 390
R527 390
R528 4.7k
R529 10
R530 1.5k
R531 43k
R532 100
R533 120
R534 120
R535 1k
R536 1k
R537 2.2k
R538 47k
C522 220p
C523 3300p
C524 100p
C525 100/16
C526 56p
C527 56p
C528 100/16
C529 5p
C530 47/16
C531 180p
C532 180p
C533 47/50
D521
D522
D523
D524
D525
D526 UDZ8.2B
UDZ6.8B
Q541 FMS3
Q543 2SA1048
Q544 FMW4
Q546 2SA970
Q547 2SC2240
Q548 2SC2240
Q549 2SA970
R541 470
R542 43k
R543 330
R544 2.2k
R545 220
R546 390
R547 390
R548 4.7k
R549 10
R550 1.5k
R551 43k
R552 100
R553 120
R554 120
R555 1k
R556 1k
R557 2.2k
R558 47k
C542 220p
C543 3300p
C544 100p
C545 100/16
C546 56p
C547 56p
C548 100/16
C549 5p
C550 47/16
C551 180p
C552 180p
C553 47/50
D541
D542
D543
D544
D545
D546 UDZ8.2B
UDZ6.8B
C569 47/50
C568 47/50
C570 0.022
R568 4.7k
R569 47k
R570 10k
R571 1k
Q561 2SC2240

E 2/2

E 2/2 V-AMP ASSY
(VSX-39TX : AWX7729)(VSX-37TX, VSX-36TX : AWX7309)
(VSX-D909S : AWX7409)

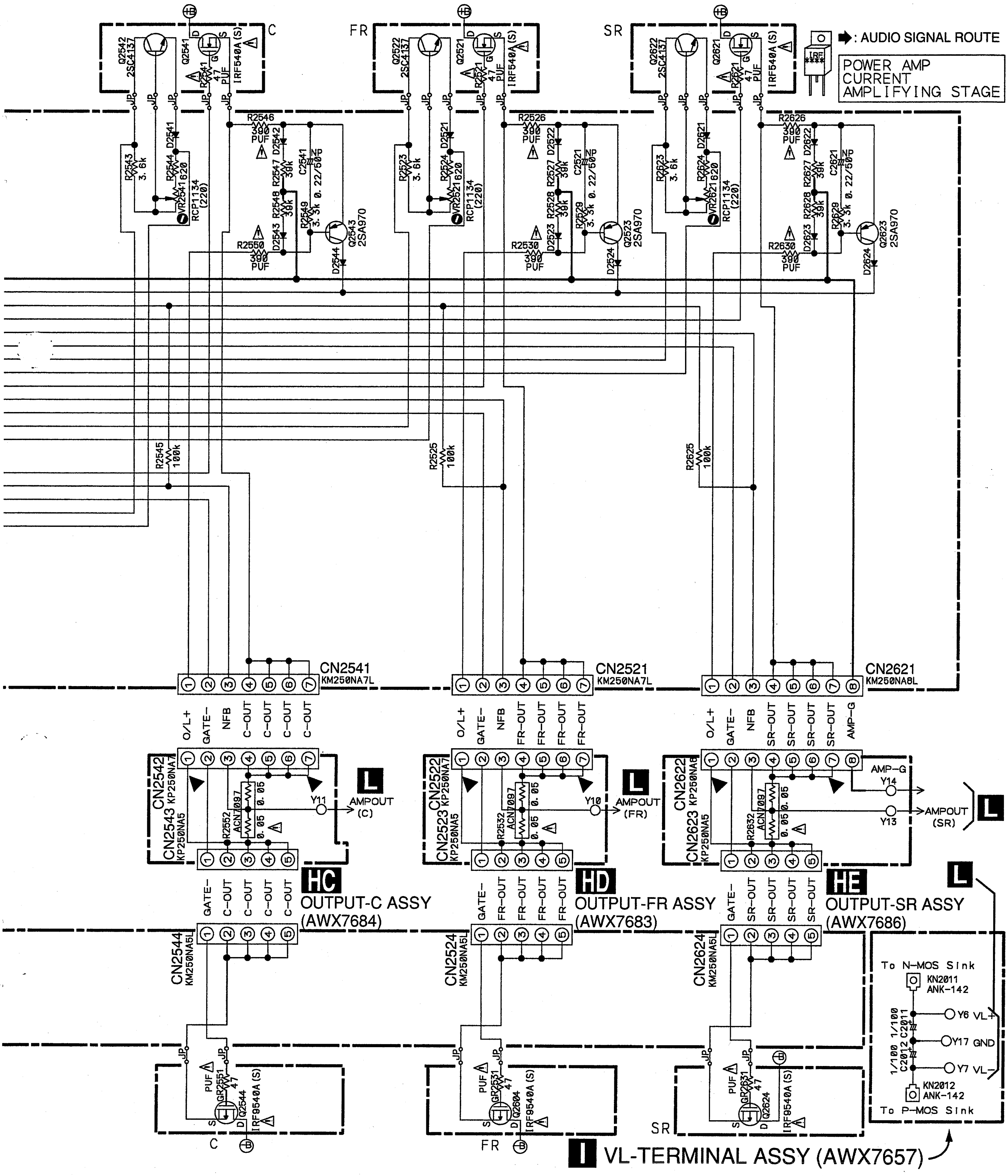

POWER AMP VOLTAGE AMPLIFYING STAGE
: AUDIO SIGNAL ROUTE
·NO MARK DIODE:1SS355
·RESISTOR:1/4W, J%
·NO MARK ELECTROLYTIC CAPACITOR:CEAS
JA:CEJA
·NON ELECTROLYTICAL CAPACITOR:CCCCH TYPE
CN502
52045-2845
BI+
BI−
G−
NFB
G+
SL
BI+
BI−
G−
NFB
G+
FL
B+
B−
G−
NFB
G+
C
BI+
BI−
G−
NFB
G+
FR
BI+
BI−
G−
NFB
G+
SR
OL DET
AMP G
DC DET
F
CN2001
SL. DET
E 1/2
SURR. L ch
SL
R601 470
R602 43k
C602 220p
Q601 FMS3
C603 3300p
R605 220
Q603 2SA1048
R603 330
R604 2.2k
R608 4.7k
Q604 FMW4
R606 390
R607 390
R609 10
R610 1.5k
C604 100p
C605 100/16
C606 56p
C607 56p
C608 100/16
R611 43k
R612 100
R618 47k
D601
D602
D603
D604
D605
D606
UDZ6.8B
UDZ6.2B
Q606 2SA970
R613 120
R615 1k
C611 180p
Q608 2SC2240
C609 5p
R616 1k
C610 47/16
C613 47/50
R617 2.2k
Q607 2SC2240
R614 120
Q609 2SA970
C612 180p
SR. DET
SURR. R ch
SR
E 1/2
R621 470
R622 43k
C622 220p
Q621 FMS3
C623 3300p
R625 220
Q623 2SA1048
R623 330
R624 2.2k
R628 4.7k
Q624 FMW4
R626 390
R627 390
R629 10
R630 1.5k
C624 100p
C625 100/16
C626 56p
C627 56p
C628 100/16
R631 43k
R632 100
R638 47k
D621
D622
D623
D624
D625
D626
UDZ6.8B
UDZ6.2B
Q626 2SA970
R633 120
R635 1k
C631 180p
Q628 2SC2240
C629 5p
R636 1k
C630 47/16
C633 47/50
R637 2.2k
Q627 2SC2240
R634 120
Q629 2SA970
C632 180p

3.9 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS


F
C-AMP-N ASSY
(AWX7681)
SL
FL
+B
Q2602 2SC4137
Q2601 IRF540A (S)
R2601 47 PUF
Q2502 2SC4137
Q2501 IRF540A (S)
R2501 47 PUF
JP
R2606 390 PUF
D2602
C2601 NP 0.22/50
R2607 39k
R2608 39k
R2609 3.3k
Q2603 2SA970
R2610 390 PUF
D2603
D2604
R2603 3.6k
R2604 620
D2601
VR2601 RCP1134 (220)
R2506 390 PUF
D2502
C2501 NP 0.22/50
R2507 39k
R2508 39k
R2509 3.3k
Q2503 2SA970
R2510 390 PUF
D2503
D2504
R2503 3.6k
R2504 620
D2501
VR2501 RCP1134 (220)
2SC1740C
Q2002
Q2001
C2001 100/10
R2001 22k
DC DET
AMP G
OL DET
SRch
GATE+
NFB
GATE−
BIAS−
BIAS+
FRch
Cch
FLch
SLch
E 2/2
CN502
CN2001
52045-2845
R2605 100k
R2505 100k
CN2601 KM250NA7L
CN2501 KM250NA7L
O/L+
GATE−
NFB
SL−OUT
FL−OUT
CN2602 KP250NA7
CN2603 KP250NA5
CN2502 KP250NA7
CN2503 KP250NA5
R2612 ACN7097 0.05 0.05
R2512 ACN7097 0.05 0.05
Y12
Y9
L
AMPOUT (SL)
AMPOUT (FL)
HA
OUTPUT-SL ASSY
(AWX7685)
HB
OUTPUT-FL ASSY
(AWX7682)
G
C-AMP-P ASSY
(AWX7680)
CN2604 KM250NA5L
CN2504 KM250NA5L
PUF
R2611 47
Q2504 IRF9540A (S)
R2511 47
Q2524 IRF9540A (S)
S
D
G
−B

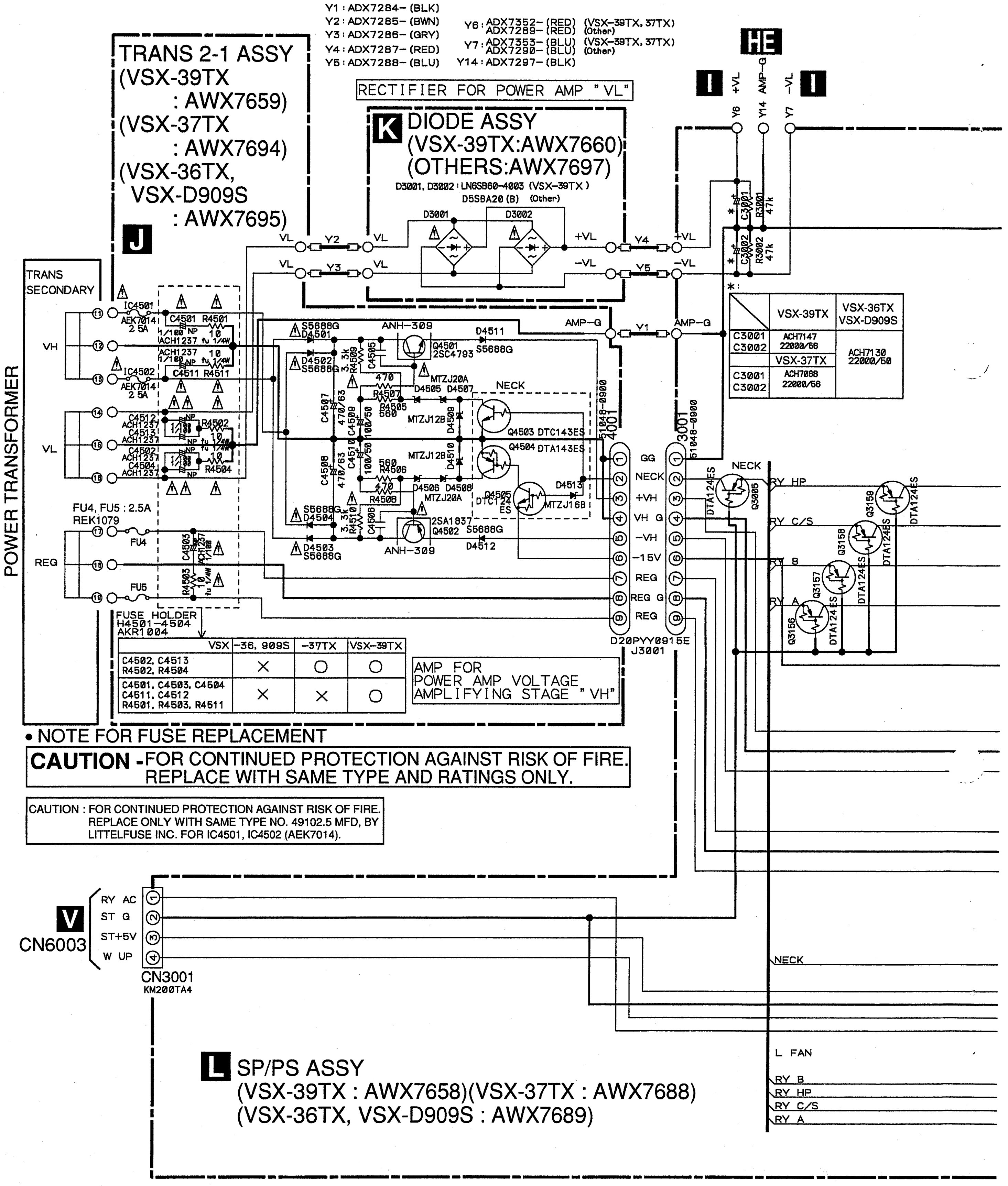
PUF: RD1/4PUF***J-T
NON FRAMABLE TYPE

DIODES WITHOUT INDICATION: 1SS133


➡ : AUDIO SIGNAL ROUTE
POWER AMP
CURRENT
AMPLIFYING STAGE
C
FR
SR
Q2542 2SC4137
Q2541 IRF540A (S)
R2541 47 PUF
Q2522 2SC4137
Q2521 IRF540A (S)
R2521 47 PUF
Q2622 2SC4137
Q2621 IRF540A (S)
R2621 47 PUF
JP
R2546 390 PUF
D2541
D2542
R2543 3.6k
R2544 620
VR2541 RCP1134 (220)
R2547 39k
C2541 0.22/50
R2548 39k
R2549 3.3k
Q2543 2SA970
D2543
R2550 390 PUF
D2544
R2526 390 PUF
D2521
D2522
R2523 3.6k
R2524 620
VR2521 RCP1134 (220)
R2527 39k
C2521 0.22/50
R2528 39k
R2529 3.3k
Q2523 2SA970
D2523
R2530 390 PUF
D2524
R2626 390 PUF
D2621
D2622
R2623 3.6k
R2624 620
VR2621 RCP1134 (220)
R2627 39k
C2621 0.22/50
R2628 39k
R2629 3.3k
Q2623 2SA970
D2623
R2630 390 PUF
D2624
R2545 100k
R2525 100k
R2625 100k
CN2541 KM250NA7L
CN2521 KM250NA7L
CN2621 KM250NA8L
O/L+
GATE-
NFB
C-OUT
FR-OUT
SR-OUT
AMP-G
CN2542 KP250NA7
CN2543 KP250NA5
R2552 ACN7097 0.05 0.05
Y11
AMPOUT (C)
L
CN2522 KP250NA7
CN2523 KP250NA5
R2532 ACN7097 0.05 0.05
Y10
AMPOUT (FR)
CN2622 KP250NA8
CN2623 KP250NA5
R2632 ACN7097 0.05 0.05
AMP-G Y14
Y13
AMPOUT (SR)
HC
OUTPUT-C ASSY (AWX7684)
HD
OUTPUT-FR ASSY (AWX7683)
HE
OUTPUT-SR ASSY (AWX7686)
CN2544 KM250NA5L
CN2524 KM250NA5L
CN2624 KM250NA5L
PUF
GR2551 47
Q2544 IRF9540A (S)
GR2531 47
Q2604 IRF9540A (S)
GR2631 47
Q2624 IRF9540A (S)
S D
To N-MOS Sink
KN2011 ANK-142
C2011 1/100
C2012 1/100
Y6 VL+
Y17 GND
Y7 VL-
KN2012 ANK-142
To P-MOS Sink
I
VL-TERMINAL ASSY (AWX7657)

F G HC HD HE I

3.10 TRANS 2-1, DIODE and SP/PS ASSYS


Y1 : ADX7284- (BLK)
Y2 : ADX7285- (BWN)
Y3 : ADX7286- (GRY)
Y4 : ADX7287- (RED)
Y5 : ADX7288- (BLU)
Y6 : ADX7352- (RED) (VSX-39TX, 37TX) ADX7289- (RED) (Other)
Y7 : ADX7353- (BLU) (VSX-39TX, 37TX) ADX7290- (BLU) (Other)
Y14 : ADX7297- (BLK)
TRANS 2-1 ASSY (VSX-39TX : AWX7659) (VSX-37TX : AWX7694) (VSX-36TX, VSX-D909S : AWX7695)
J
RECTIFIER FOR POWER AMP "VL"
K
DIODE ASSY (VSX-39TX:AWX7660) (OTHERS:AWX7697)
D3001, D3002 : LN6SB60-4003 (VSX-39TX) D5SBA20 (B) (Other)
D3001
D3002
HE
I
+VL
AMP-G
-VL
Y6
Y14
Y7
C3001
C3002
R3001 47k
R3002 47k
TRANS SECONDARY
POWER TRANSFORMER
VH
VL
REG
IC4501 AEK7014 2.5A
IC4502 AEK7014 2.5A
FU4, FU5 : 2.5A REK1079
FU4
FU5
FUSE HOLDER H4501-4504 AKR1004
ANH-309
Q4501 2SC4793
Q4502 2SA1837
Q4503 DTC143ES
Q4504 DTA143ES
Q4505 DTC124ES
NECK
AMP FOR POWER AMP VOLTAGE AMPLIFYING STAGE "VH"
51048-0900
4001
3001
GG
NECK
+VH
VH G
-VH
-15V
REG
REG G
REG
D20PYY0915E
J3001
DTA124ES
Q3005
Q3156
Q3157
Q3158
Q3159
RY HP
RY C/S
RY B
RY A
V
CN6003
RY AC
ST G
ST+5V
W UP
CN3001 KM200TA4
L
SP/PS ASSY (VSX-39TX : AWX7658)(VSX-37TX : AWX7688) (VSX-36TX, VSX-D909S : AWX7689)
L FAN
RY B
RY HP
RY C/S
RY A

*:

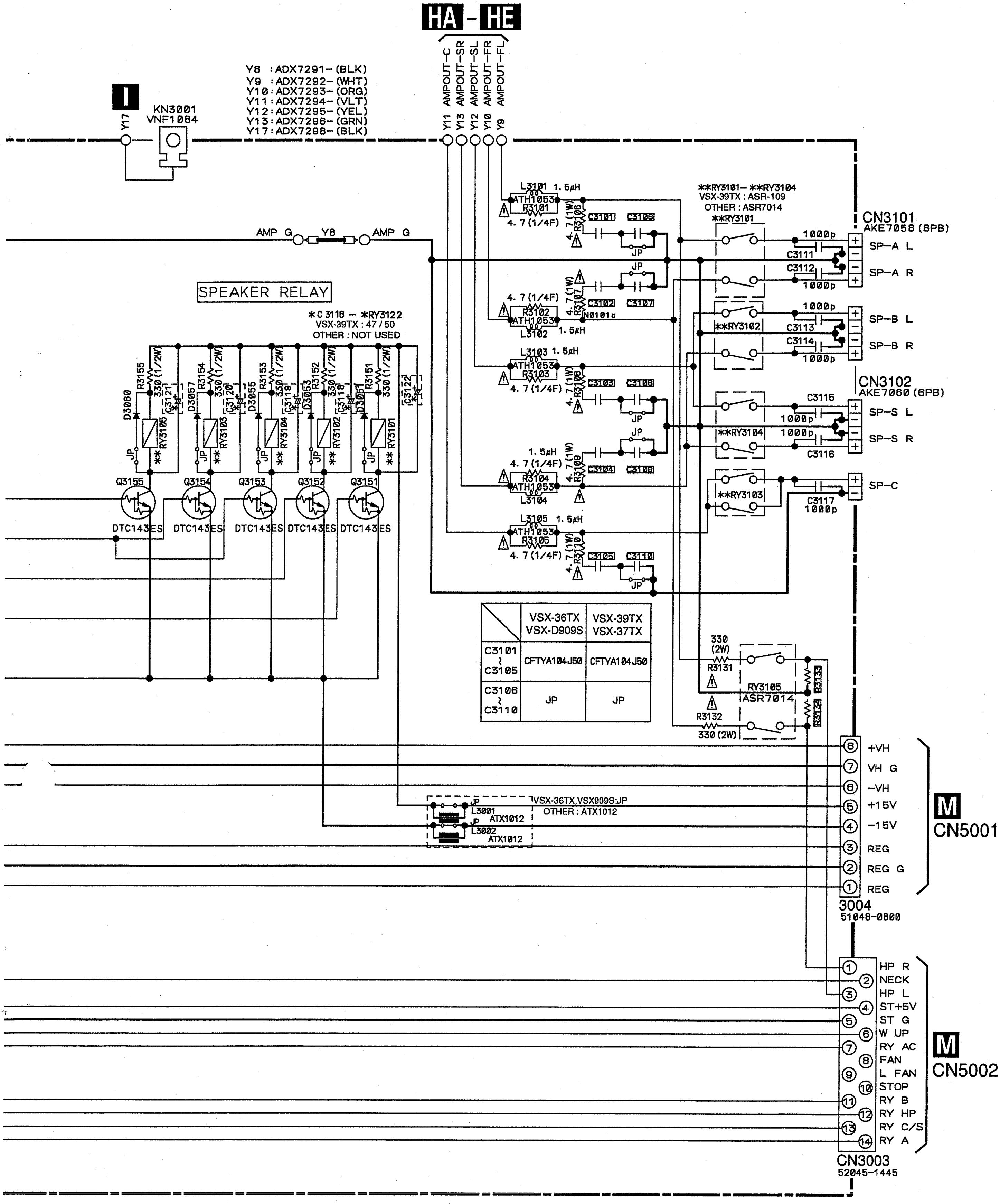
	VSX-39TX	VSX-36TX VSX-D909S
C3001 C3002	ACH7147 22000/56	ACH7130 22000/50
	VSX-37TX	
C3001 C3002	ACH7088 22000/56	

VSX	-36, 909S	-37TX	VSX-39TX
C4502, C4513 R4502, R4504	×	○	○
C4501, C4503, C4504 C4511, C4512 R4501, R4503, R4511	×	×	○

- NOTE FOR FUSE REPLACEMENT

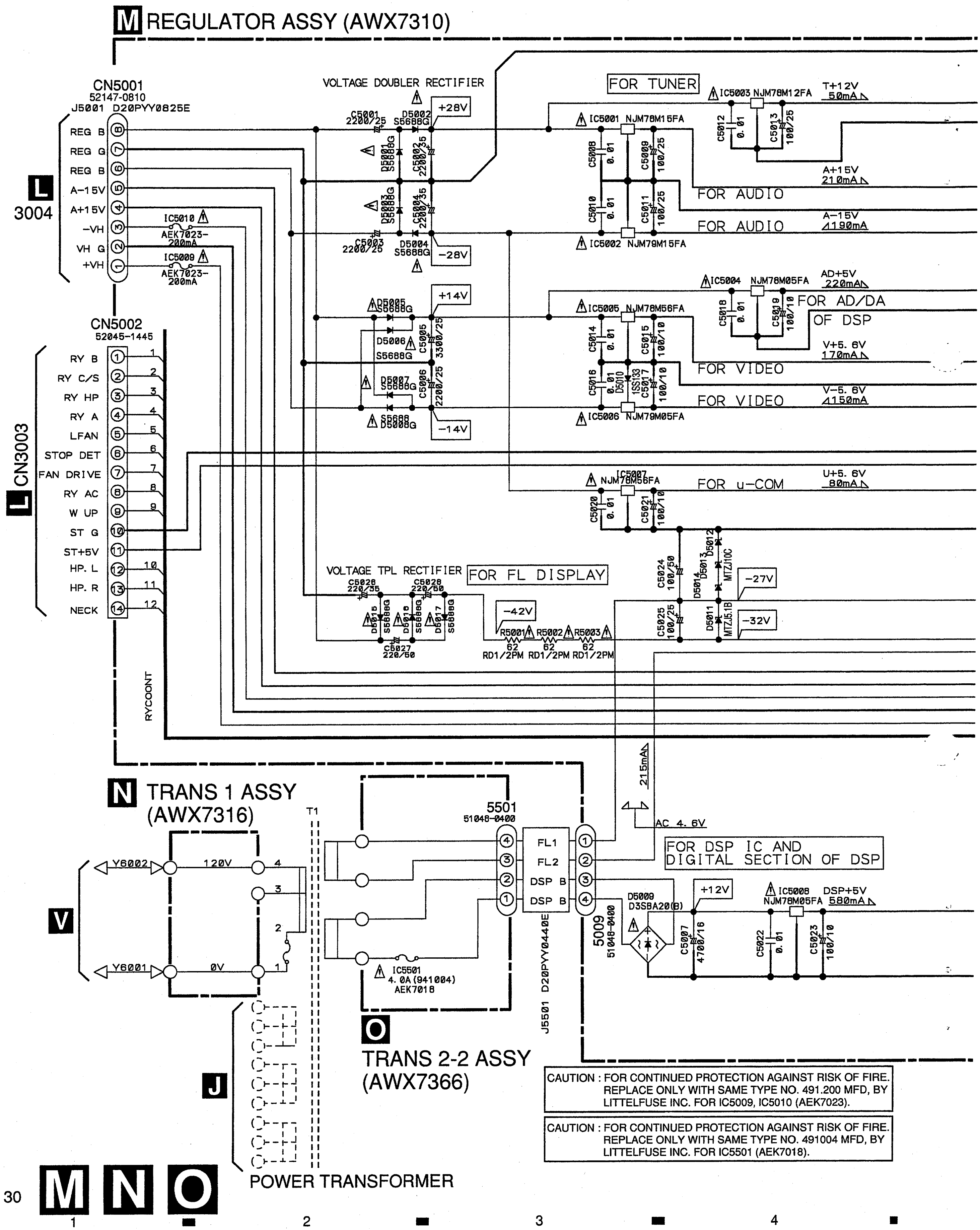
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY LITTELFUSE INC. FOR IC4501, IC4502 (AEK7014).


HA - HE
I
KN3001
VNF1084
Y17
Y8 : ADX7291-(BLK)
Y9 : ADX7292-(WHT)
Y10 : ADX7293-(ORG)
Y11 : ADX7294-(VLT)
Y12 : ADX7295-(YEL)
Y13 : ADX7296-(GRN)
Y17 : ADX7298-(BLK)
Y11 AMPOUT-C
Y13 AMPOUT-SR
Y12 AMPOUT-SL
Y10 AMPOUT-FR
Y9 AMPOUT-FL
AMP G
Y8
AMP G
SPEAKER RELAY
*C3118 - *RY3122
VSX-39TX : 47 / 50
OTHER : NOT USED
R3155 R3154 R3153 R3152 R3151
330 (1/2W)
C3121 C3120 C3119 C3118 C3122
D3060 D3057 D3055 D3053 D3051
RY3105 RY3103 RY3104 RY3102 RY3101
JP
**
Q3155 Q3154 Q3153 Q3152 Q3151
DTC143ES
L3101 1.5μH
ATH1053
R3101
4.7 (1/4F)
R3106 4.7 (1W)
C3101 C3106
JP
R3107 4.7 (1W)
C3102 C3107
R3102
L3102 1.5μH
N0101o
L3103 1.5μH
R3103
R3108 4.7 (1W)
C3103 C3108
R3109 4.7 (1W)
C3104 C3109
R3104
L3104
L3105 1.5μH
R3105
R3110 4.7 (1W)
C3105 C3110
**RY3101- **RY3104
VSX-39TX : ASR-109
OTHER : ASR7014
**RY3101
**RY3102
**RY3104
**RY3103
CN3101
AKE7058 (8PB)
1000p
C3111
C3112
SP-A L
SP-A R
C3113
C3114
SP-B L
SP-B R
CN3102
AKE7060 (6PB)
C3115
C3116
SP-S L
SP-S R
C3117
SP-C
330 (2W)
R3131
RY3105
ASR7014
R3133
R3134
R3132
330 (2W)
JP
L3001
ATX1012
L3002
VSX-36TX,VSX909S:JP
OTHER : ATX1012
⑧ +VH
⑦ VH G
⑥ -VH
⑤ +15V
④ -15V
③ REG
② REG G
① REG
3004
51048-0800
M
CN5001
① HP R
② NECK
③ HP L
④ ST+5V
⑤ ST G
⑥ W UP
⑦ RY AC
⑧ FAN
⑨ L FAN
⑩ STOP
⑪ RY B
⑫ RY HP
⑬ RY C/S
⑭ RY A
CN3003
52045-1445
M
CN5002

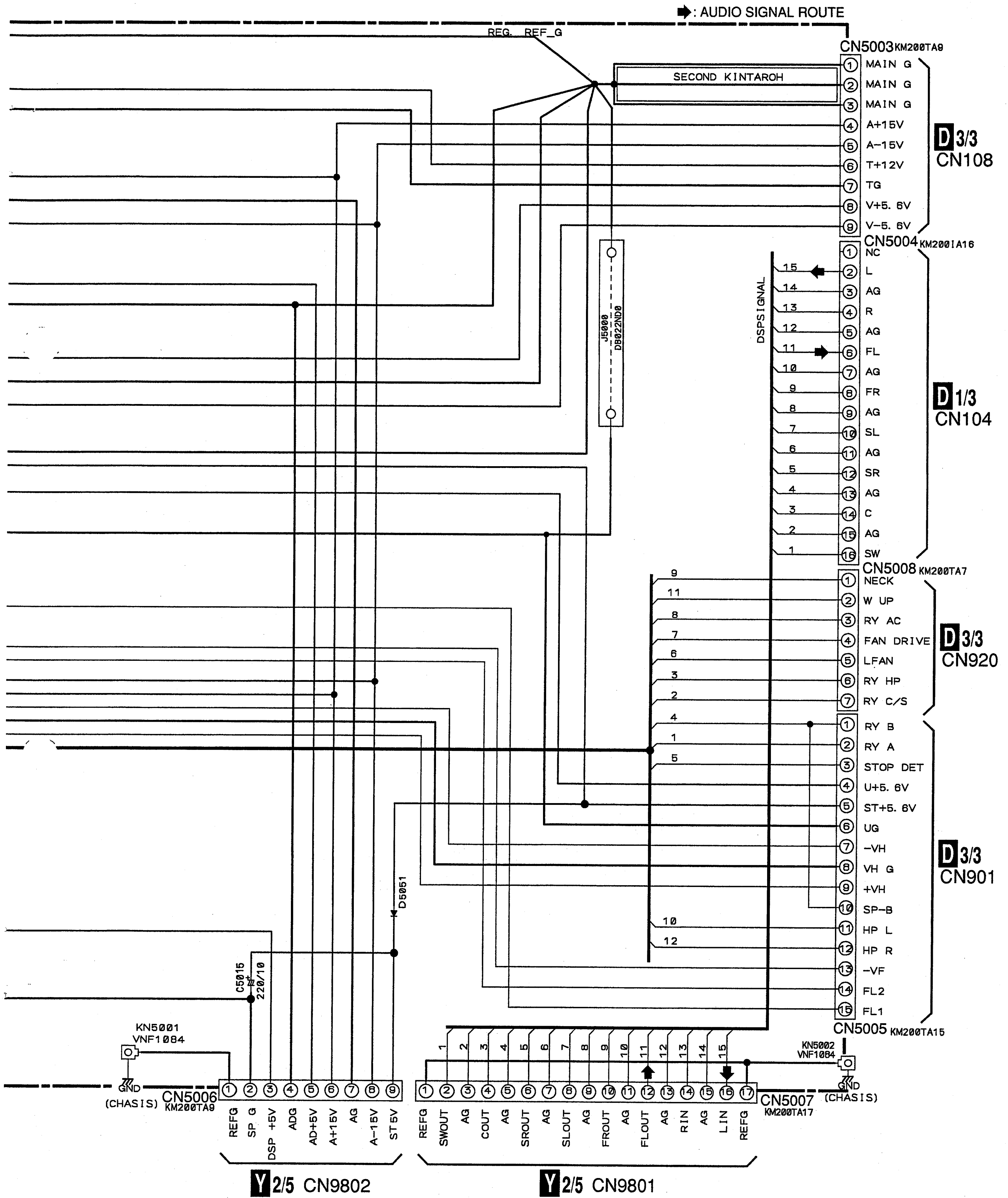
	VSX-36TX VSX-D909S	VSX-39TX VSX-37TX
C3101 ~ C3105	CFTYA104J50	CFTYA104J50
C3106 ~ C3110	JP	JP

3.11 REGULATOR, TRANS 1 and TRANS 2-2 ASSYS


M REGULATOR ASSY (AWX7310)
CN5001
52147-0810
J5001 D20PYY0825E
REG B
REG G
REG B
A-15V
A+15V
-VH
VH G
+VH
L
3004
IC5010
AEK7023-200mA
IC5009
AEK7023-200mA
VOLTAGE DOUBLER RECTIFIER
+28V
C5001 2200/25
D5002 S5688G
D5001 S5688G
C5002 2200/35
D5003 S5688G
C5004 2200/35
C5003 2200/25
D5004 S5688G
-28V
FOR TUNER
IC5003 NJM78M12FA
T+12V 50mA
C5012 0.01
C5013 100/25
IC5001 NJM78M15FA
C5008 0.01
C5009 100/25
A+15V 210mA
FOR AUDIO
C5010 0.01
C5011 100/25
FOR AUDIO
A-15V 190mA
IC5002 NJM79M15FA
IC5004 NJM78M05FA
AD+5V 220mA
C5018 0.01
C5019 100/10
FOR AD/DA OF DSP
+14V
D5005 S5688G
IC5005 NJM78M56FA
D5006 S5688G
C5005 3300/25
C5014 0.01
C5015 100/10
V+5.6V 170mA
FOR VIDEO
D5007 S5688G
C5006 2200/25
C5016 0.01
D5010 1SS133
C5017 100/10
V-5.6V 150mA
FOR VIDEO
D5008 S5688G
-14V
IC5006 NJM79M05FA
CN5002
52045-1445
RY B
RY C/S
RY HP
RY A
LFAN
STOP DET
FAN DRIVE
RY AC
W UP
ST G
ST+5V
HP. L
HP. R
NECK
L CN3003
IC5007 NJM78M56FA
FOR u-COM
U+5.6V 80mA
C5020 0.01
C5021 100/10
D5012 MTZJ10C
D5013
D5014
C5024 100/50
-27V
VOLTAGE TPL RECTIFIER
FOR FL DISPLAY
C5026 220/35
C5028 220/50
D5015 S5688G
D5016 S5688G
D5017 S5688G
C5027 220/50
-42V
R5001 62 RD1/2PM
R5002 62 RD1/2PM
R5003 62 RD1/2PM
C5025 100/25
D5011 MTZJ5.1B
-32V
RYCOONT
215mA
N TRANS 1 ASSY (AWX7316)
T1
Y6002
120V
Y6001
0V
5501
51048-0400
FL1
FL2
DSP B
DSP B
AC 4.6V
FOR DSP IC AND DIGITAL SECTION OF DSP
IC5501
4.0A (941004)
AEK7018
J5501 D20PYV0440E
5009
51048-0400
D5009
D3SBA20(B)
+12V
C5007 4700/16
IC5008 NJM78M05FA
DSP+5V 580mA
C5022 0.01
C5023 100/10
O
TRANS 2-2 ASSY (AWX7366)
J
V
POWER TRANSFORMER
A
B
C
D

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INC. FOR IC5009, IC5010 (AEK7023).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491004 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7018).


: AUDIO SIGNAL ROUTE
REG. REF_G
SECOND KINTAROH
CN5003 KM200TA9
① MAIN G
② MAIN G
③ MAIN G
④ A+15V
⑤ A–15V
⑥ T+12V
⑦ TG
⑧ V+5. 6V
⑨ V–5. 6V
D 3/3 CN108
CN5004 KM200IA16
① NC
② L
③ AG
④ R
⑤ AG
⑥ FL
⑦ AG
⑧ FR
⑨ AG
⑩ SL
⑪ AG
⑫ SR
⑬ AG
⑭ C
⑮ AG
⑯ SW
D 1/3 CN104
DSPSIGNAL
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
J5000
DB022ND0
CN5008 KM200TA7
① NECK
② W UP
③ RY AC
④ FAN DRIVE
⑤ LFAN
⑥ RY HP
⑦ RY C/S
D 3/3 CN920
9 11 8 7 6 3 2 4 1 5 10 12
① RY B
② RY A
③ STOP DET
④ U+5. 6V
⑤ ST+5. 6V
⑥ UG
⑦ –VH
⑧ VH G
⑨ +VH
⑩ SP–B
⑪ HP L
⑫ HP R
⑬ –VF
⑭ FL2
⑮ FL1
D 3/3 CN901
CN5005 KM200TA15
D5051
C5015
220/10
KN5001
VNF1084
GND
(CHASIS)
CN5006
KM200TA9
① REFG
② SP G
③ DSP +5V
④ ADG
⑤ AD+5V
⑥ A+15V
⑦ AG
⑧ A–15V
⑨ ST 5V
Y 2/5 CN9802
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
KN5002
VNF1084
GND
(CHASIS)
CN5007
KM200TA17
① REFG
② SWOUT
③ AG
④ COUT
⑤ AG
⑥ SROUT
⑦ AG
⑧ SLOUT
⑨ AG
⑩ FROUT
⑪ AG
⑫ FLOUT
⑬ AG
⑭ RIN
⑮ AG
⑯ LIN
⑰ REFG
Y 2/5 CN9801

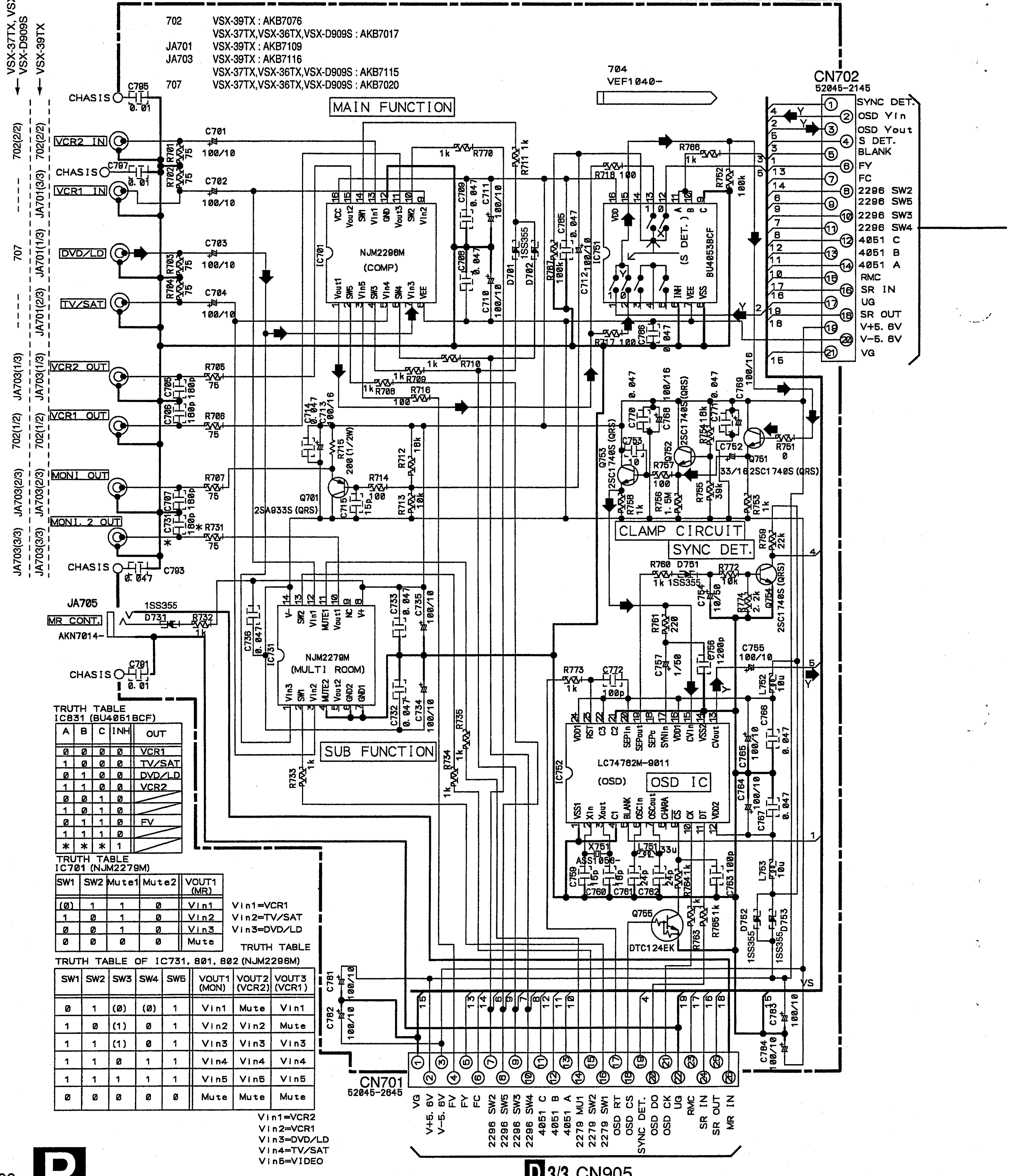
3.12 VIDEO and S-VIDEO ASSYS

P VIDEO ASSY
(VSX-39TX : AWX7307)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7394)

TRUTH TABLE OF IC751 (BU4053BCF)

CONDITION	A	B	C	INH	X OUT	Y OUT
S NOT USED	0	0	/	0	1X	1Y
S USED	1	1	/	0	0X	0Y

702	VSX-39TX : AKB7076 VSX-37TX,VSX-36TX,VSX-D909S : AKB7017
JA701	VSX-39TX : AKB7109
JA703	VSX-39TX : AKB7116 VSX-37TX,VSX-36TX,VSX-D909S : AKB7115
707	VSX-37TX,VSX-36TX,VSX-D909S : AKB7020


VSX-37TX, VSX-36TX, VSX-D909S
VSX-39TX
CHASIS
C795 0.01
VCR2 IN
VCR1 IN
DVD/LD
TV/SAT
VCR2 OUT
VCR1 OUT
MONI OUT
MONI. 2 OUT
C793 0.047
702(2/2)
JA701(3/3)
JA701(1/3)
JA701(2/3)
JA703(1/3)
702(1/2)
JA703(2/3)
JA703(3/3)
707
C701 100/10
C702 100/10
C703 100/10
C704 100/10
R701 75
R702 75
R703 75
R704 75
R705 75
R706 75
R707 75
R731 75
C705 180p
C706 180p
C707 180p
C731 180p
C797 0.01
MAIN FUNCTION
IC701
NJM2296M
(COMP)
VCC Vout2 SW1 Vin1 GND Vout3 SW2 Vin2
Vout1 SW5 Vin5 SW3 Vin4 SW4 Vin3 VEE
R770 1k
R711 1k
C709 0.047
C711 100/10
C708 0.047
C710 100/10
D701 1SS355
D702 1SS355
C785 0.047
R767 100k
C712 100/10
IC751
BU4053BCF
(S DET.)
VDD VEE VSS INH
R718 100
R766 1k
R752 100k
R717 100
C786 0.047
704
VEF1040-
CN702
52045-2145
SYNC DET.
OSD Yin
OSD Yout
S DET.
BLANK
FY
FC
2296 SW2
2296 SW5
2296 SW3
2296 SW4
4051 C
4051 B
4051 A
RMC
SR IN
UG
SR OUT
V+5.6V
V-5.6V
VG
R710 1k
R709 1k
R708 1k
R716 100
C714 0.047
C713 100/16
R715 200(1/2W)
R712 18k
R714 100
Q701
2SA933S(QRS)
C715 15p
R713 10k
C770 0.047
C768 100/16
C771 0.047
C769 100/16
C763 10
Q753 2SC1740S(QRS)
Q752 2SC1740S(QRS)
R754 18k
C752 33/16
Q751 2SC1740S(QRS)
R751 0
R757 100
R758 1k
R756 1.5M
R755 39k
R753 1k
CLAMP CIRCUIT
SYNC DET.
R759 22k
R760 1k
D751 1SS355
R772 10k
C754 10/50
R774 2.2k
Q754 2SC1740S(QRS)
R761 220
C757 1/50
C756 1200p
C755 100/10
L752 10u
R773 1k
C772 100p
IC752
LC74782M-9011
(OSD)
OSD IC
VDD1 RST C3 C2 SEPin SEPout SEPc SYNin VDD1 CVin VSS2 CVout
VSS1 Xin Xout C1 BLANK OSCin OSCout CHARA CS CK DT VDD2
C766 0.047
C765 100/10
C764 100/10
C767 0.047
X751 ASS1056-
L751 33u
C759 15p
C760 15p
C761 24p
C762 24p
R764 1k
C763 100p
L763 10u
D752 1SS355
D753 1SS355
Q755 DTC124EK
R763 1k
R765 1k
JA705
MR CONT.
AKN7014-
D731 1SS355
R732 1k
C791 0.01
IC731
NJM2279M
(MULTI ROOM)
V- SW2 Vin1 MUTE1 Vout1 NC V+
Vin3 SW1 Vin2 MUTE2 Vout2 GND2 GND1
C736 0.047
C733 0.047
C735 100/10
C732 0.047
C734 100/10
SUB FUNCTION
R733 1k
R734 1k
R735 1k
C781 100/10
C782 100/10
C783 100/10
C784 100/10
CN701
52045-2645
VG
V+5.6V
V-5.6V
FV
FY
FC
2296 SW2
2296 SW5
2296 SW3
2296 SW4
4051 C
4051 B
4051 A
2279 MU1
2279 SW2
2279 SW1
OSD RT
OSD CS
SYNC DET.
OSD DO
OSD CK
UG
RMC
SR IN
SR OUT
MR IN
D 3/3 CN905

TRUTH TABLE
IC831 (BU4051BCF)

A	B	C	INH	OUT
0	0	0	0	VCR1
1	0	0	0	TV/SAT
0	1	0	0	DVD/LD
1	1	0	0	VCR2
0	0	1	0	
1	0	1	0	
0	1	1	0	FV
1	1	1	0	
*	*	*	1	

TRUTH TABLE
IC701 (NJM2279M)

SW1	SW2	Mute1	Mute2	VOUT1 (MR)
(0)	1	1	0	Vin1
1	0	1	0	Vin2
0	0	1	0	Vin3
0	0	0	0	Mute

Vin1=VCR1
Vin2=TV/SAT
Vin3=DVD/LD

TRUTH TABLE

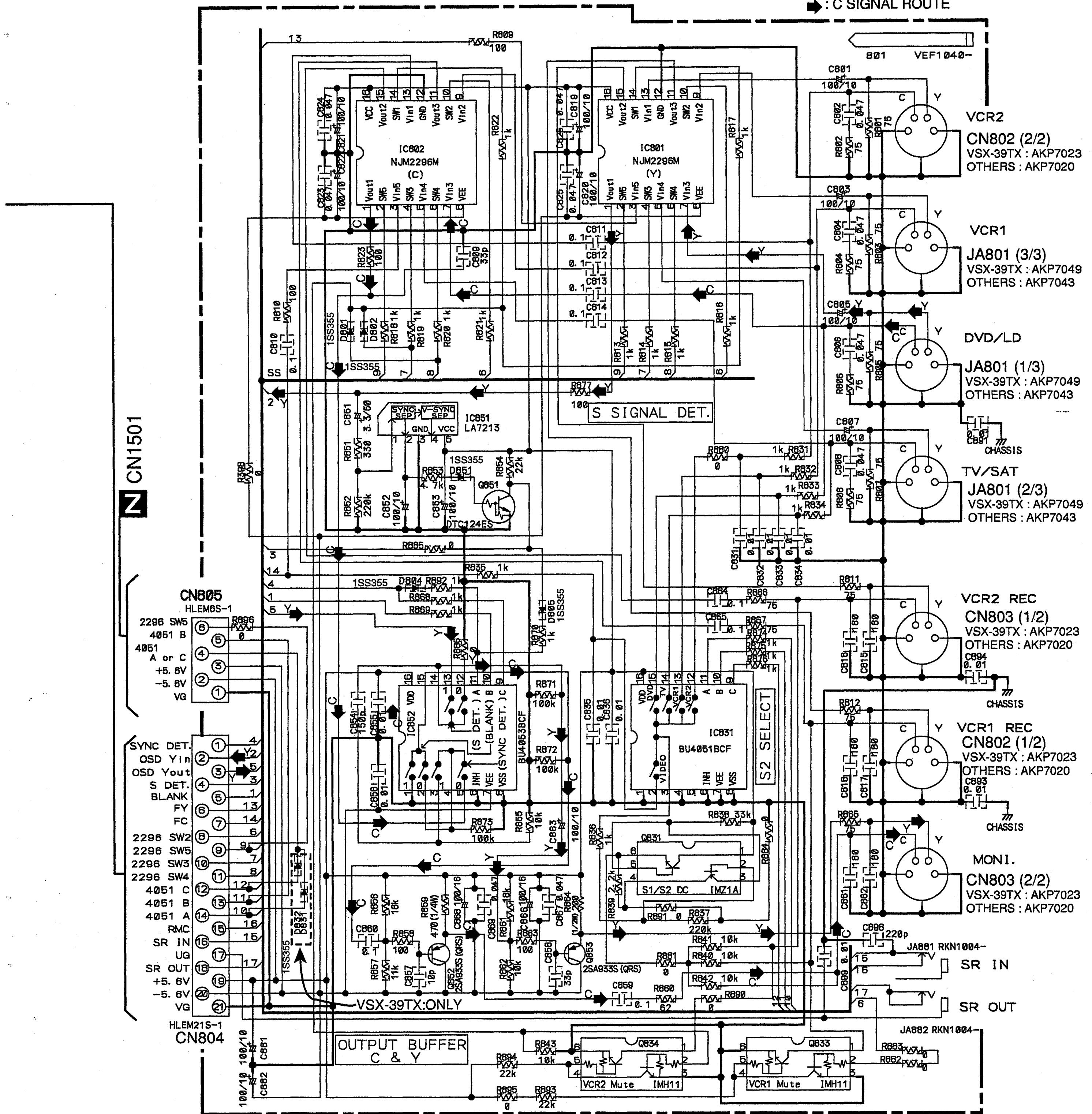
TRUTH TABLE OF IC731, 801, 802 (NJM2296M)

SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)
0	1	(0)	(0)	1	Vin1	Mute	Vin1
1	0	(1)	0	1	Vin2	Vin2	Mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	0	0	0	Mute	Mute	Mute

Vin1=VCR2
Vin2=VCR1
Vin3=DVD/LD
Vin4=TV/SAT
Vin5=VIDEO

Q S-VIDEO ASSY
(VSX-39TX : AWX7678)
(OTHERS : AWX7679)

➡ : AUDIO SIGNAL ROUTE
Y ➡ : Y SIGNAL ROUTE
C ➡ : C SIGNAL ROUTE

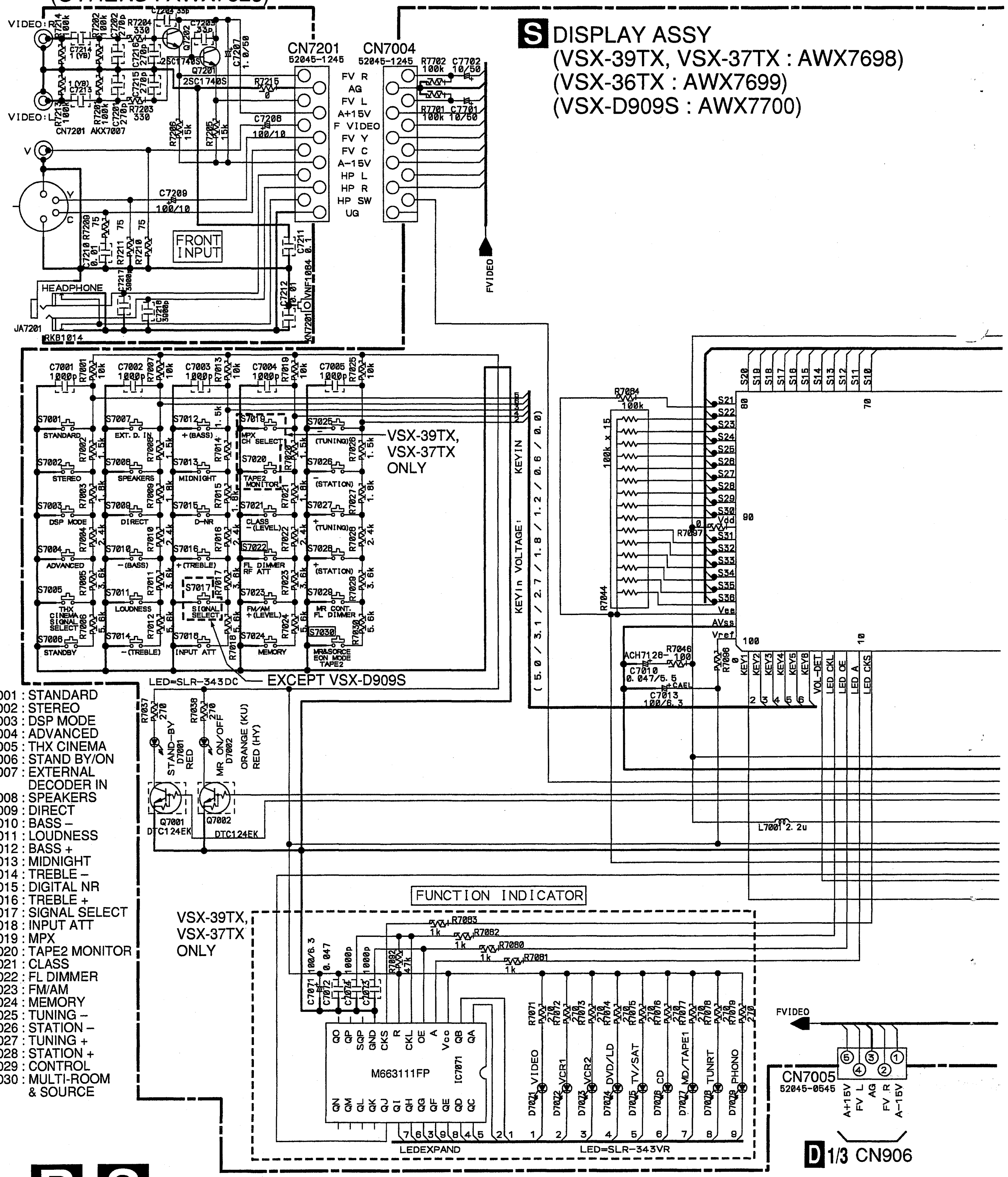

801 VEF1040-
IC802 NJM2296M (C)
IC801 NJM2296M (Y)
VCC Vout2 SW1 Vin1 GND Vout3 SW2 Vin2
Vout1 SW5 SW3 Vin5 Vin4 SW4 Vin3 VEE
VCR2
CN802 (2/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
VCR1
JA801 (3/3)
VSX-39TX : AKP7049
OTHERS : AKP7043
DVD/LD
JA801 (1/3)
VSX-39TX : AKP7049
OTHERS : AKP7043
TV/SAT
JA801 (2/3)
VSX-39TX : AKP7049
OTHERS : AKP7043
VCR2 REC
CN803 (1/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
VCR1 REC
CN802 (1/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
MONI.
CN803 (2/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
CHASSIS
S SIGNAL DET.
IC851 LA7213
SYNC SEP
V-SYNC SEP
Q851 DTC124ES
1SS355
IC852 BU4053BCF
(S DET.) A
(BLANK) B
(SYNC DET.) C
IC831 BU4051BCF
S2 SELECT
Q831 IMZ1A
S1/S2 DC
Q852 2SA933S (QRS)
Q853 2SA933S (QRS)
OUTPUT BUFFER C & Y
Q834 VCR2 Mute IMH11
Q833 VCR1 Mute IMH11
C REC MUTE
JA881 RKN1004-
SR IN
SR OUT
JA882 RKN1004-
Z CN1501
CN805 HLEM6S-1
2296 SW5
4051 B
4051 A or C
+5.6V
-5.6V
VG
SYNC DET.
OSD Yin
OSD Yout
S DET.
BLANK
FY
FC
2296 SW2
2296 SW5
2296 SW3
2296 SW4
4051 C
4051 B
4051 A
RMC
SR IN
UG
SR OUT
+5.6V
-5.6V
VG
HLEM21S-1
CN804
VSX-39TX:ONLY

FOR ISOLATOR (0 OHM)
R771 R887
R775 R888
R776 R889
R777
R778

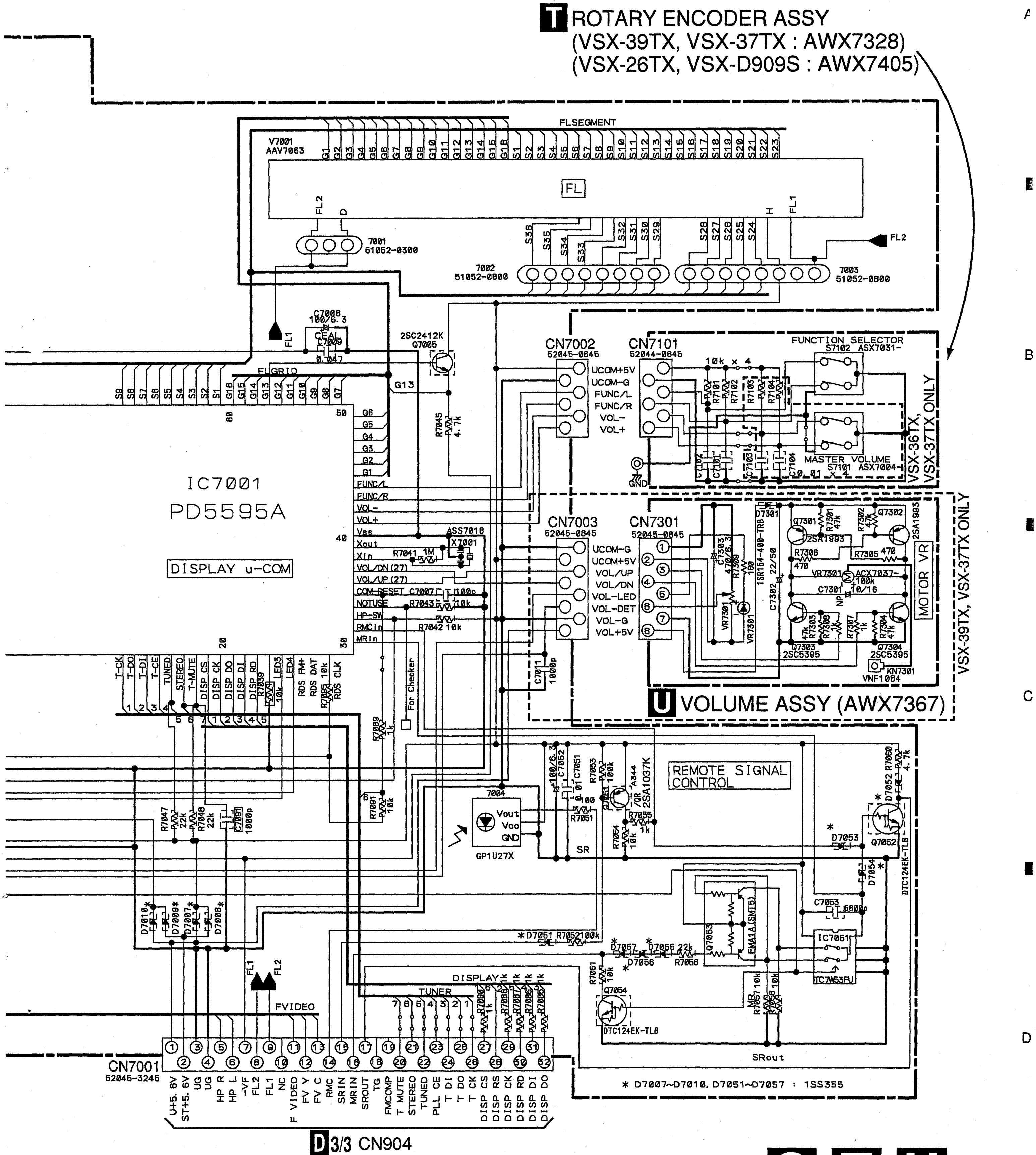
3.13 H. PHONE/F. VIDEO, DISPLAY, ROTARY ENCODER and VOLUME ASSYS

R H. PHONE/F. VIDEO ASSY
(VSX-39TX,VSX-37TX : AWX7342)
(OTHERS : AWX7528)

S DISPLAY ASSY
(VSX-39TX, VSX-37TX : AWX7698)
(VSX-36TX : AWX7699)
(VSX-D909S : AWX7700)

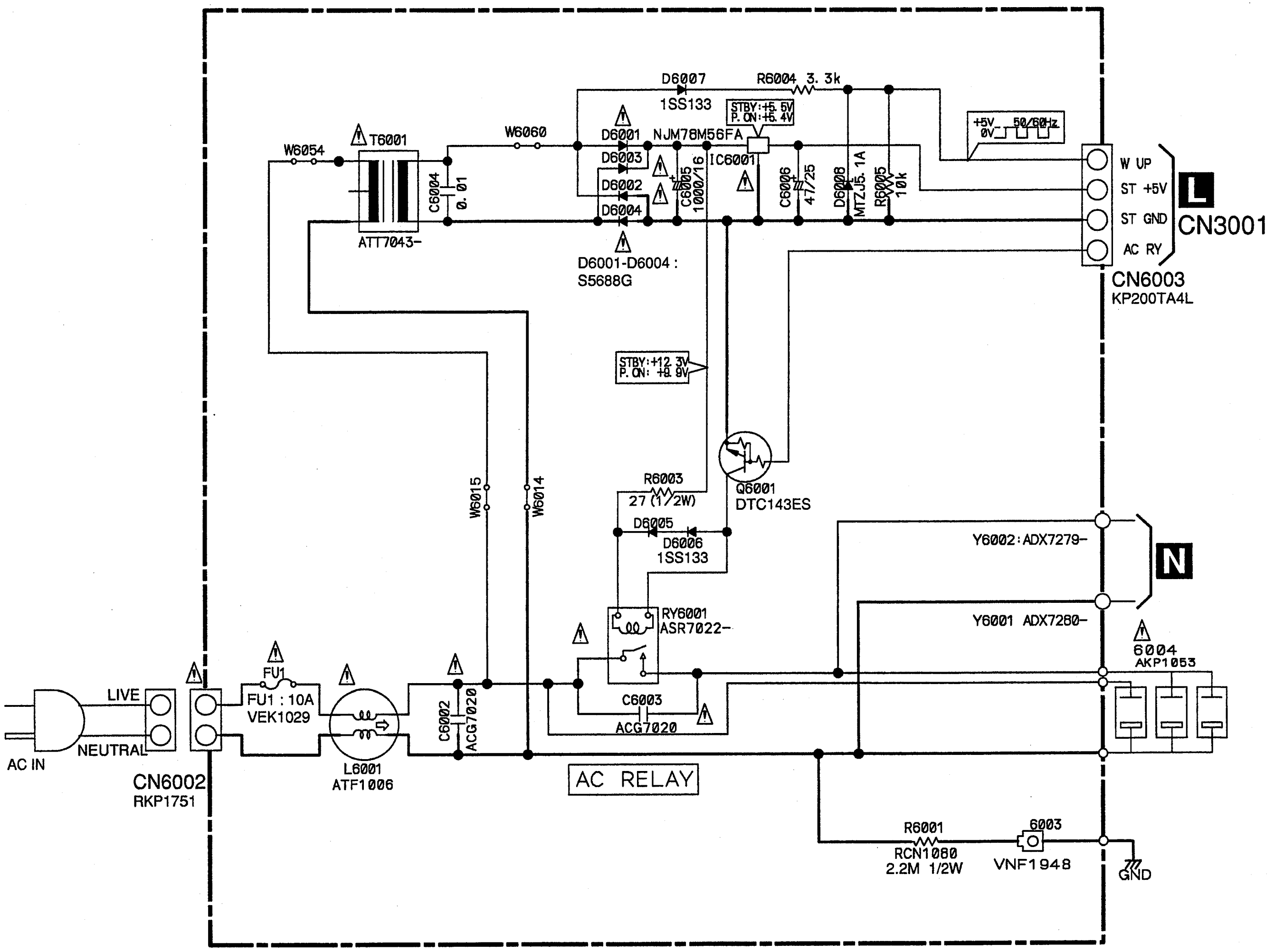

VIDEO:R
VIDEO:L
CN7201 AKX7007
2SC1740S
Q7201
Q7202
R7214 100k
R7202 100k
R7201 100k
R7204 330
R7203 330
C7202 270p
C7201 270p
C7203 33p
C7207 1.0/50
R7215 0
C7208 100/10
R7206 15k
R7205 15k
C7209 100/10
R7209 75
R7211 75
R7210 75
C7210 0.01
C7211 0.1
C7217 3000p
C7218 3000p
C7212 0.01
VNF1084
FRONT INPUT
HEADPHONE
JA7201
RKB1014
CN7201 52045-1245
CN7004 52045-1245
FV R
AG
FV L
A+15V
F VIDEO
FV Y
FV C
A-15V
HP L
HP R
HP SW
UG
R7702 100k
C7702 10/50
R7701 100k
C7701 10/50
FVIDEO
C7001 1000p
C7002 1000p
C7003 1000p
C7004 1000p
C7005 1000p
R7001 10k
S7001 STANDARD
S7002 STEREO
S7003 DSP MODE
S7004 ADVANCED
S7005 THX CINEMA SIGNAL SELECT
S7006 STANDBY
S7007 EXT. D. I.
S7008 SPEAKERS
S7009 DIRECT
S7010 -(BASS)
S7011 LOUDNESS
S7014 -(TREBLE)
S7012 +(BASS)
S7013 MIDNIGHT
S7015 D-NR
S7016 +(TREBLE)
S7017 SIGNAL SELECT
S7018 INPUT ATT
S7019 MPX CH SELECT
S7020 TAPE2 MONITOR
S7021 CLASS -(LEVEL)
S7022 FL DIMMER RF ATT
S7023 FM/AM +(LEVEL)
S7024 MEMORY
S7025 -(TUNING)
S7026 -(STATION)
S7027 +(TUNING)
S7028 +(STATION)
S7029 MR CONT. FL DIMMER
S7030 MR&SOURCE EON MODE TAPE2
1.5k
1.8k
2.4k
3.6k
5.6k
VSX-39TX, VSX-37TX ONLY
EXCEPT VSX-D909S
LED=SLR-343DC
KEYIN
KEYIn VOLTAGE: (5.0 / 3.1 / 2.7 / 1.8 / 1.2 / 0.6 / 0.0)
R7037 270
R7038 270
STAND-BY D7001 RED
MR ON/OFF D7002 ORANGE (KU) RED (HY)
Q7001 DTC124EK
Q7002 DTC124EK
R7084 100k
100k x 15
R7044
R7097 0
S20 S19 S18 S17 S16 S15 S14 S13 S12 S11 S10
S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 Vdd S31 S32 S33 S34 S35 S36 Vee AVss Vref
80 70 90 100 10
ACH7126
R7046 100
C7010 0.047/5.5 CAEL
C7013 100/6.3
R7096 0
KEY1 KEY2 KEY3 KEY4 KEY5 KEY6 VOL-DET LED CKL LED OE LED A LED CKS
L7001 2.2u
FUNCTION INDICATOR
VSX-39TX, VSX-37TX ONLY
R7083 1k
R7082 1k
R7080 1k
R7081 1k
C7071 100/6.3
C7072 0.047
C7074 1000p
C7075 1000p
R7092 4.7k
QO QP SQP GND CKS R CKL OE A Vcc QB QA
M663111FP
IC7071
QN QM QL QK QJ QI QH QG QF QE QD QC
R7071 270 ... R7079 270
D7071 VIDEO
D7072 VCR1
D7073 VCR2
D7074 DVD/LD
D7075 TV/SAT
D7076 CD
D7077 MD/TAPE1
D7078 TUNER
D7079 PHONO
LEDEXPAND
LED=SLR-343VR
FVIDEO
CN7005 52045-0545
A+15V FV L AG FV R A-15V
D 1/3 CN906

S7001 : STANDARD
S7002 : STEREO
S7003 : DSP MODE
S7004 : ADVANCED
S7005 : THX CINEMA
S7006 : STAND BY/ON
S7007 : EXTERNAL DECODER IN
S7008 : SPEAKERS
S7009 : DIRECT
S7010 : BASS –
S7011 : LOUDNESS
S7012 : BASS +
S7013 : MIDNIGHT
S7014 : TREBLE –
S7015 : DIGITAL NR
S7016 : TREBLE +
S7017 : SIGNAL SELECT
S7018 : INPUT ATT
S7019 : MPX
S7020 : TAPE2 MONITOR
S7021 : CLASS
S7022 : FL DIMMER
S7023 : FM/AM
S7024 : MEMORY
S7025 : TUNING –
S7026 : STATION –
S7027 : TUNING +
S7028 : STATION +
S7029 : CONTROL
S7030 : MULTI-ROOM & SOURCE


T ROTARY ENCODER ASSY
(VSX-39TX, VSX-37TX : AWX7328)
(VSX-26TX, VSX-D909S : AWX7405)
FLSEGMENT
V7001
AAV7063
FL
FL2
FL1
7001
51052-0300
7002
51052-0800
7003
51052-0800
C7008
100/6.3
CEAL
C7009
0.047
2SC2412K
Q7005
FLGRID
G13
R7045
4.7k
IC7001
PD5595A
DISPLAY u-COM
FUNC/L
FUNC/R
VOL-
VOL+
Vss
Xout
XIn
R7041 1M
ASS7018
X7001
VOL/DN (27)
VOL/UP (27)
COM-RESET C7007 100p
NOTUSE R7043 10k
HP-SW
RMCIn R7042 10k
MRIn
CN7002
52045-0645
UCOM+5V
UCOM-G
FUNC/L
FUNC/R
VOL-
VOL+
CN7101
52044-0645
10k x 4
R7101
R7102
R7103
R7104
FUNCTION SELECTOR
S7102 ASX7031-
MASTER VOLUME
S7101 ASX7004-
C7102
C7101
C7103
C7104
0.01 x 4
GND
VSX-36TX, VSX-37TX ONLY
CN7003
52045-0845
CN7301
52045-0845
UCOM-G
UCOM+5V
VOL/UP
VOL/DN
VOL-LED
VOL-DET
VOL-G
VOL+5V
C7303
4.7/6.3
R7309
180
VR7301
1SR154-400-TRB
D7301
C7302 22/50
Q7301
R7301 47k
2SA1993
R7302 47k
Q7302
2SA1993
R7306 470
R7305 470
VR7301
ACX7037-
100k
C7301 10/16
NP
MOTOR VR
Q7303
2SC5395
R7303 47k
R7308 1k
R7307 1k
R7304 47k
Q7304
2SC5395
KN7301
VNF1084
C7011
1000p
VSX-39TX, VSX-37TX ONLY
U VOLUME ASSY (AWX7367)
T-CK
T-DO
T-DI
T-CE
TUNED
STEREO
T-MUTE
DISP CS
DISP CK
DISP DO
DISP DI
DISP RD
LED3
LED4
RDS FM+
RDS DAT
RDS CLK
R7039 10k
R7095 10k
For Checker
R7089 1k
R7091 10k
R7047 22k
R7048 22k
C7091 1000p
D7010
D7009
D7007
D7008
7004
Vout
Vcc
GND
GP1U27X
C7052 100/6.3
C7051 0.01
R7053 100k
R7051 100
Q7051 2SA1037K
R7055 1k
R7054 10k
SR
REMOTE SIGNAL CONTROL
R7060 4.7k
D7052
Q7052
D7053
D7054
DTC124EK-TLB
C7053 6800p
IC7051
TC7W53FU
D7051 R7052 100k
D7057
D7055 22k
D7056
R7056
Q7053
FMA1A (SMT5)
R7061 10k
Q7054
DTC124EK-TLB
MR
R7057 10k
R7058 10k
SRout
* D7007~D7010, D7051~D7057 : 1SS355
FL1
FL2
FVIDEO
DISPLAY
TUNER
R7090 1k
R7088 1k
R7087 1k
R7086 1k
R7085 1k
CN7001
52045-3245
U+5.6V
ST+5.6V
UG
UG
HP R
HP L
-VF
FL2
FL1
NC
F VIDEO
FV Y
FV C
RMC
SRIN
MRIN
SROUT
TG
FMCOMP
T MUTE
STEREO
TUNED
PLL CE
T DI
T DO
T CK
DISP CS
DISP RS
DISP CK
DISP RD
DISP DI
DISP DO
D 3/3 CN904

3.14 PRIMARY ASSY

V PRIMARY ASSY (AWX7311)

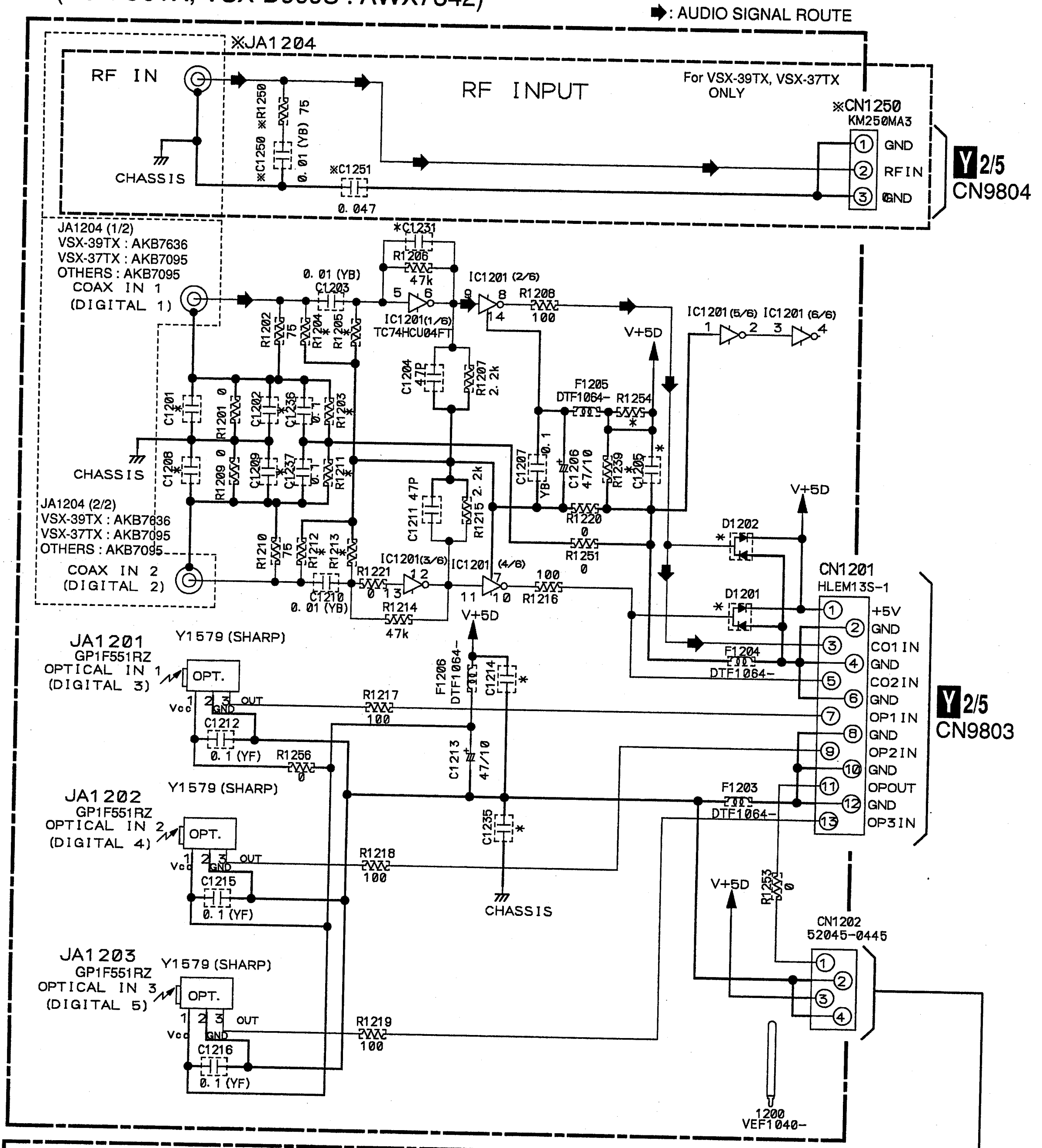

D6007
1SS133
R6004 3.3k
STBY:+5.5V
P.ON:+5.4V
+5V
0V
50/60Hz
W6054
T6001
ATT7043-
W6060
C6004
0.01
D6001
D6003
D6002
D6004
D6001-D6004 :
S5688G
NJM78M56FA
IC6001
C6005
1000/16
C6006
47/25
D6008
MTZJ5.1A
R6005
10k
W UP
ST +5V
ST GND
AC RY
L
CN3001
CN6003
KP200TA4L
STBY:+12.3V
P.ON: +8.8V
Q6001
DTC143ES
R6003
27 (1/2W)
D6005
D6006
1SS133
W6015
W6014
Y6002:ADX7279-
Y6001 ADX7280-
N
RY6001
ASR7022-
6004
AKP1053
LIVE
NEUTRAL
AC IN
CN6002
RKP1751
FU1
FU1 : 10A
VEK1029
L6001
ATF1006
C6002
ACG7020
C6003
ACG7020
AC RELAY
R6001
RCN1080
2.2M 1/2W
6003
VNF1948
GND

- NOTE FOR FUSE REPLACEMENT

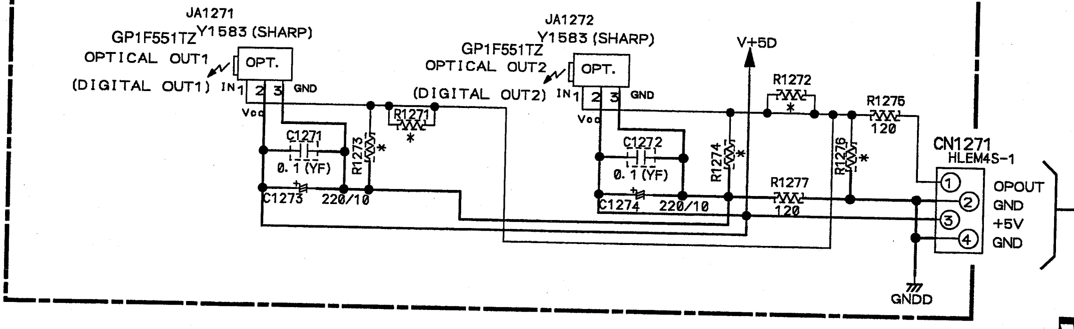
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.15 RF/DIGITAL INPUT and OPT OUT ASSYS

W RF / DIGITAL INPUT ASSY
(VSX-39TX : AWX7637) (VSX-37TX : AWX7638)
(VSX-36TX, VSX-D909S : AWX7642)

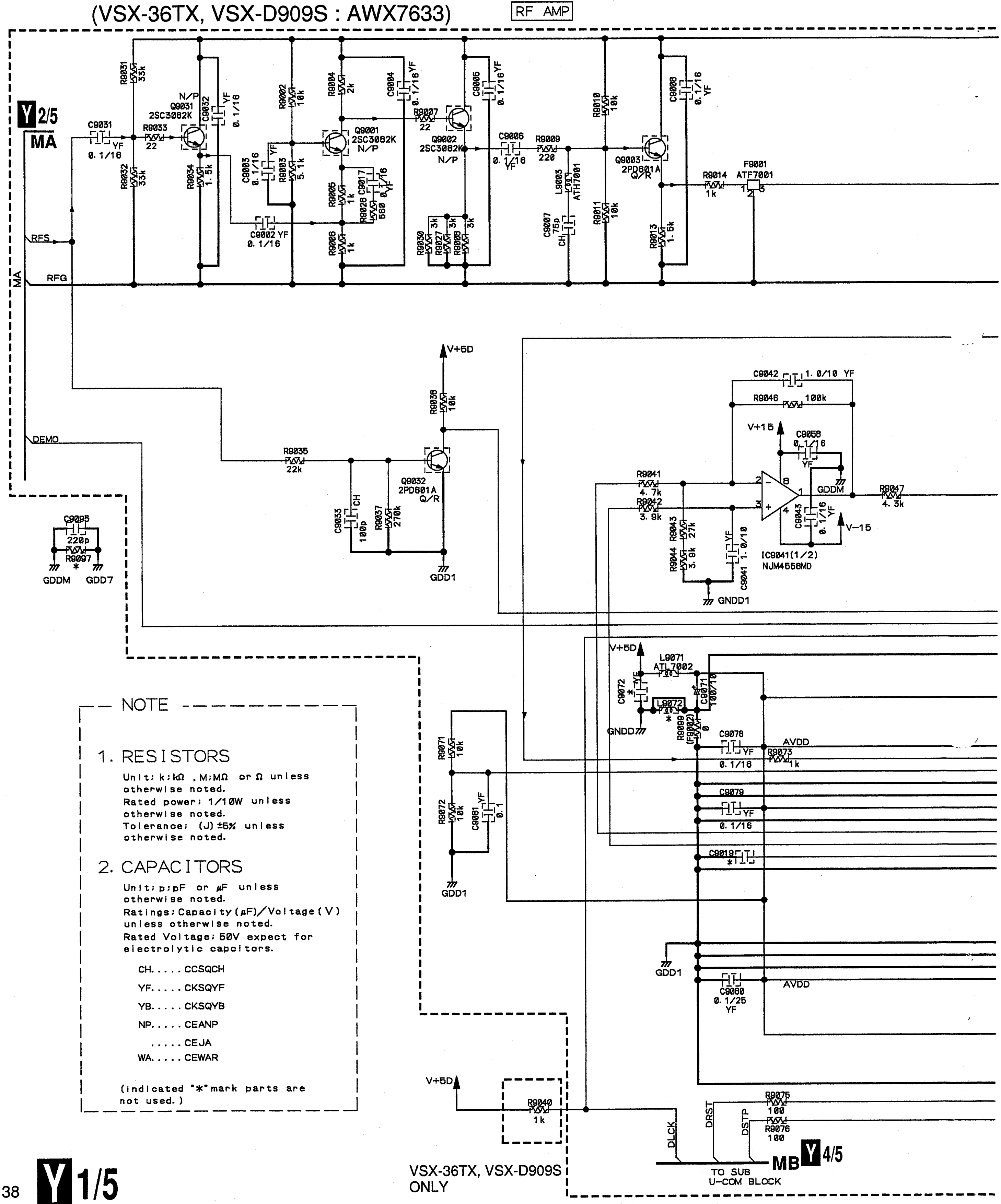

➡: AUDIO SIGNAL ROUTE
※JA1204
RF IN
RF INPUT
CHASSIS
※C1250
※R1250
0.01 (YB) 75
※C1251
0.047
For VSX-39TX, VSX-37TX ONLY
※CN1250
KM250MA3
① GND
② RFIN
③ GND
Y 2/5
CN9804
JA1204 (1/2)
VSX-39TX : AKB7636
VSX-37TX : AKB7095
OTHERS : AKB7095
COAX IN 1
(DIGITAL 1)
※C1231
R1206
47k
0.01 (YB)
C1203
IC1201 (1/6)
TC74HCU04FT
IC1201 (2/6)
R1208
100
R1202 75
R1204
R1205
C1204 47P
R1207 2.2k
IC1201 (5/6) IC1201 (6/6)
V+5D
F1205
DTF1064-
R1254
C1201
R1201 0
C1202
C1236
R1203
C1207 YB 0.1
C1206 47/10
R1259
C1205
R1220 0
R1251 0
CHASSIS
C1208
R1209 0
C1209
C1237
R1211
C1211 47P
R1215 2.2k
JA1204 (2/2)
VSX-39TX : AKB7636
VSX-37TX : AKB7095
OTHERS : AKB7095
COAX IN 2
(DIGITAL 2)
R1210 75
R1212
R1213
C1210
0.01 (YB)
R1221 0
IC1201 (3/6)
IC1201 (4/6)
R1214
47k
R1216
100
D1202
D1201
CN1201
HLEM13S-1
① +5V
② GND
③ CO1 IN
④ GND
⑤ CO2 IN
⑥ GND
⑦ OP1 IN
⑧ GND
⑨ OP2 IN
⑩ GND
⑪ OPOUT
⑫ GND
⑬ OP3 IN
Y 2/5
CN9803
F1204
DTF1064-
JA1201
GP1F551RZ
Y1579 (SHARP)
OPTICAL IN 1
(DIGITAL 3)
OPT.
Vcc GND OUT
C1212
0.1 (YF)
R1217
100
R1256
0
F1206
DTF1064-
C1214
C1213
47/10
JA1202
GP1F551RZ
Y1579 (SHARP)
OPTICAL IN 2
(DIGITAL 4)
C1215
0.1 (YF)
R1218
100
C1235
CHASSIS
F1203
DTF1064-
V+5D
R1253 0
CN1202
52045-0445
JA1203
GP1F551RZ
Y1579 (SHARP)
OPTICAL IN 3
(DIGITAL 5)
C1216
0.1 (YF)
R1219
100
1200
VEF1040-

X OPT OUT ASSY (AWX7643)


JA1271
GP1F551TZ
Y1583 (SHARP)
OPTICAL OUT1
(DIGITAL OUT1)
OPT.
IN Vcc GND
C1271
0.1 (YF)
R1273
R1271
C1273 220/10
JA1272
GP1F551TZ
Y1583 (SHARP)
OPTICAL OUT2
(DIGITAL OUT2)
C1272
0.1 (YF)
C1274 220/10
R1274
V+5D
R1272
R1275
120
R1276
R1277
120
CN1271
HLEM4S-1
① OPOUT
② GND
③ +5V
④ GND
GNDD

3.16 DSP ASSY (1/5)

Y 1/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)


RF AMP
Y 2/5
MA
RFS
RFG
DEMO
C9031 0.1/16 YF
R9033 22
R9031 33k
R9032 33k
Q9031 2SC3082K N/P
C9032 0.1/16 YF
R9034 1.5k
R9002 10k
C9003 0.1/16 YF
R9003 5.1k
C9002 YF 0.1/16
R9004 2k
Q9001 2SC3082K N/P
C9004 0.1/16 YF
R9005 1k
C9017 0.1/16 YF
R9028 560
R9006 1k
R9007 22
Q9002 2SC3082K N/P
C9005 0.1/16 YF
R9030 3k
R9027 3k
R9008 3k
C9006 0.1/16 YF
R9009 220
L9003 ATH7001
C9007 75p CH
R9010 10k
R9011 10k
Q9003 2PD601A Q/R
C9008 0.1/16 YF
R9013 1.5k
R9014 1k
F9001 ATF7001
V+5D
R9038 10k
R9035 22k
Q9032 2PD601A Q/R
C9033 100p CH
R9037 270k
GDD1
C9095 220p
R9097 *
GDDM
GDD7
C9042 1.0/10 YF
R9046 100k
V+15
C9058 0.1/16 YF
R9041 4.7k
R9042 3.9k
R9043 27k
R9044 3.9k
C9041 1.0/10 YF
GNDD1
IC9041(1/2) NJM4556MD
C9043 0.1/16 YF
V-15
GDDM
R9047 4.3k
L9071 ATL7002
C9072 * YF
L9072 *
C9071 100/10
R9099 (F9002) 0
GNDD
C9078 0.1/16 YF
R9073 1k
AVDD
C9079 0.1/16 YF
C9019 *
R9071 10k
R9072 10k
C9081 0.1 YF
GDD1
C9080 0.1/25 YF
AVDD
V+5D
R9040 1k
DLCK
DRST
DSTP
R9075 100
R9076 100
MB Y 4/5
TO SUB U-COM BLOCK
VSX-36TX, VSX-D909S ONLY

NOTE

1. RESISTORS

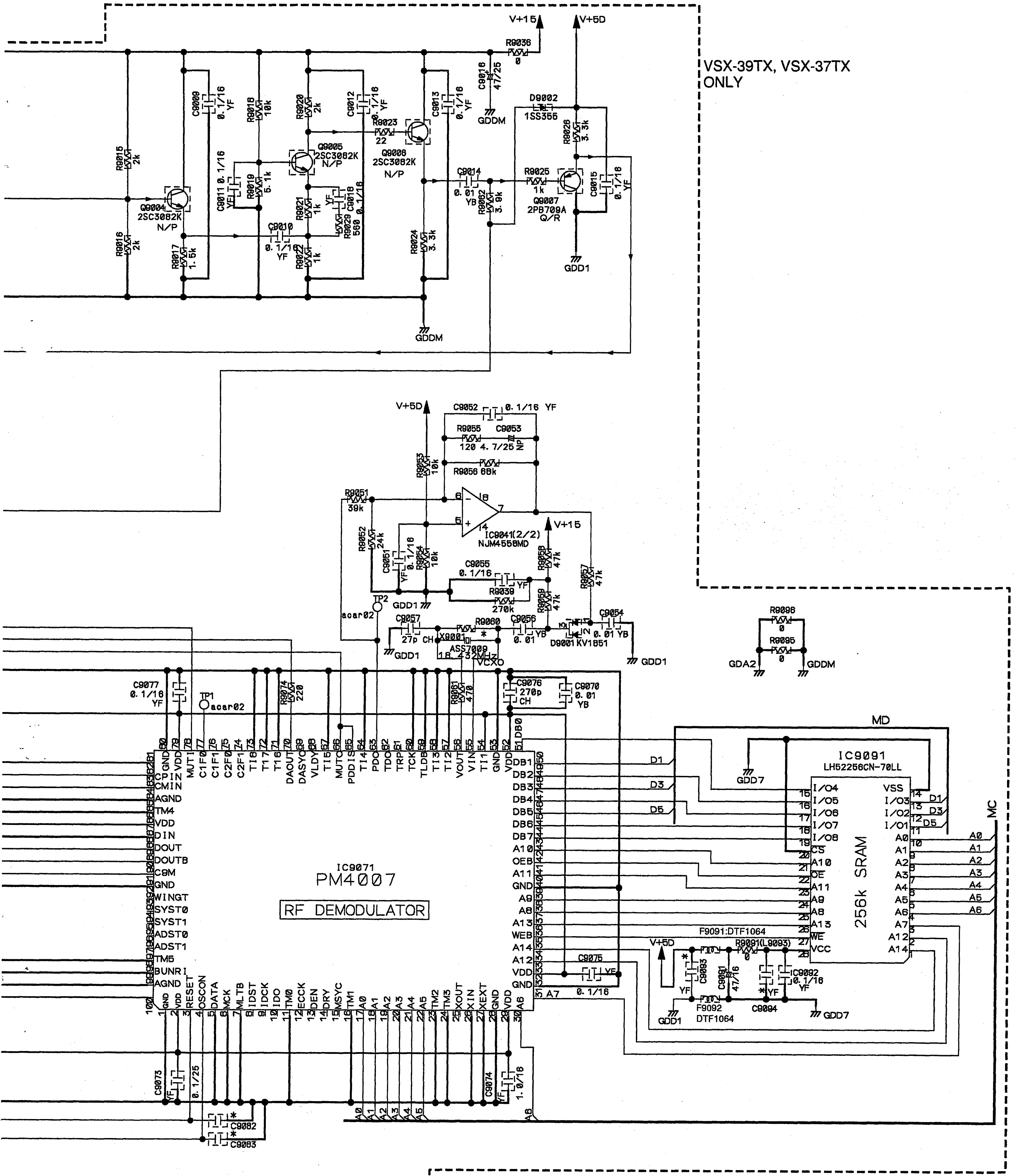
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

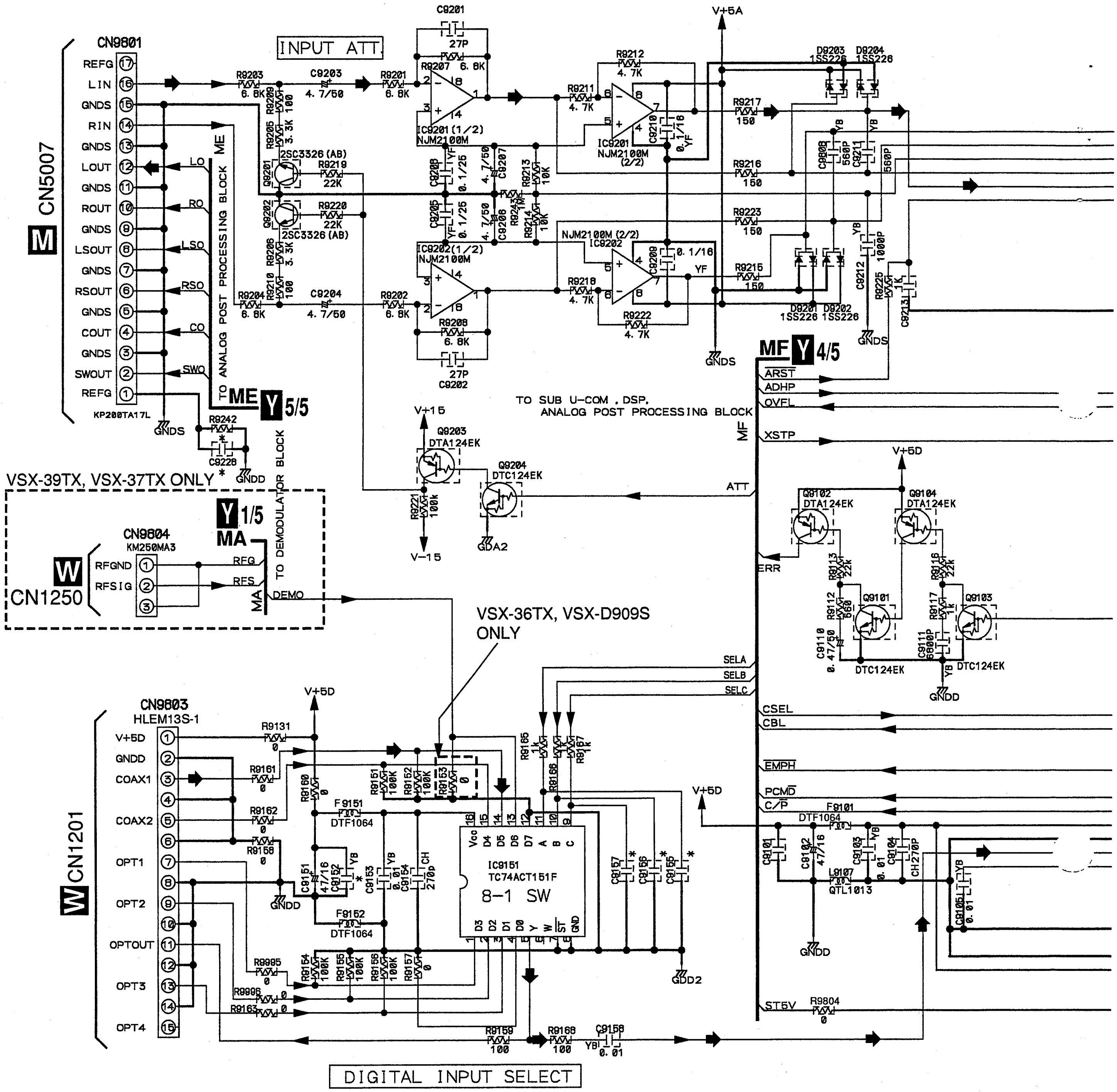
CH.	CCSQCH
YF.	CKSQYF
YB.	CKSQYB
NP.	CEANP
. . . . .	CEJA
WA.	CEWAR

(indicated "*" mark parts are not used.)


VSX-39TX, VSX-37TX
ONLY
V+15
V+5D
R9036 0
C9016 47/25
GDDM
D9002 1SS355
R9026 3.3k
C9009 0.1/16 YF
R9018 10k
R9020 2k
C9012 0.1/16 YF
C9013 0.1/16 YF
R9023 22
Q9005 2SC3082K N/P
Q9006 2SC3082K N/P
R9015 2k
R9016 2k
Q9004 2SC3082K N/P
R9017 1.5k
C9011 0.1/16 YF
R9019 5.1k
C9010 0.1/16 YF
R9021 1k
R9022 1k
R9029 560
C9018 0.1/16 YF
R9024 3.3k
C9014 0.01 YB
R9062 3.9k
R9025 1k
Q9007 2PB709A Q/R
C9015 0.1/16 YF
GDD1
GDDM
V+5D
C9052 0.1/16 YF
R9055 120
C9053 4.7/25 NP
R9056 68k
R9053 10k
R9051 39k
R9052 24k
C9051 0.1/16 YF
R9054 10k
IC9041(2/2) NJM4558MD
V+15
R9058 47k
R9057 47k
C9055 0.1/16 YF
R9039 270k
R9059 47k
GDD1
TP2
acar02
C9057 27p CH
X9001 AS57009 18.432MHz
R9060
C9056 0.01 YB
D9001 KV1851
C9054 0.01 YB
VCXO
GDD1
R9096 0
R9095 0
GDA2
GDDM
C9077 0.1/16 YF
TP1 acar02
R9074 220
R9061 470
C9076 270p CH
C9070 0.01 YB
IC9071
PM4007
RF DEMODULATOR
GND VDD MUT1 C1F0 C1F1 C2F0 C2F1 TI8 TI7 TI6 DAOUT DASYC VLDY TI5 MUTC PDDIS TI4 PDO TDO TRP TCK TLDB TI3 TI2 VOUT VIN TI1 GND VDD DB0
CPIN CMIN AGND TM4 VDD DIN DOUT DOUTB C9M GND WINGT SYST0 SYST1 ADST0 ADST1 TM5 BUNRI AGND
DB1 DB2 DB3 DB4 DB5 DB6 DB7 A10 OEB A11 GND A9 A8 A13 WEB A14 A12 VDD GND A6
GND VDD RESET OSCON DATA MCK MLTB IDST IDCK IDO TM0 ECCK DEN DRY MSYC TM1 A0 A1 A2 A3 A4 A5 TM2 TM3 XOUT XIN XEXT GND VDD A6
A7
C9075 0.1/16 YF
C9073 YF
C9074 1.0/16
0.1/25
C9082
C9083
MD
D1 D3 D5
GDD7
IC9091
LH52256CN-70LL
256k SRAM
I/O4 I/O5 I/O6 I/O7 I/O8 CS A10 OE A11 A9 A8 A13 WE VCC
VSS I/O3 I/O2 I/O1 A0 A1 A2 A3 A4 A5 A6 A7 A12 A14
MC
A0 A1 A2 A3 A4 A5 A6
F9091:DTF1064
V+5D
R9091(L9093)
C9093 YF
C9091 47/16
C9094 YF
C9092 0.1/16 YF
F9092 DTF1064
GDD1
GDD7

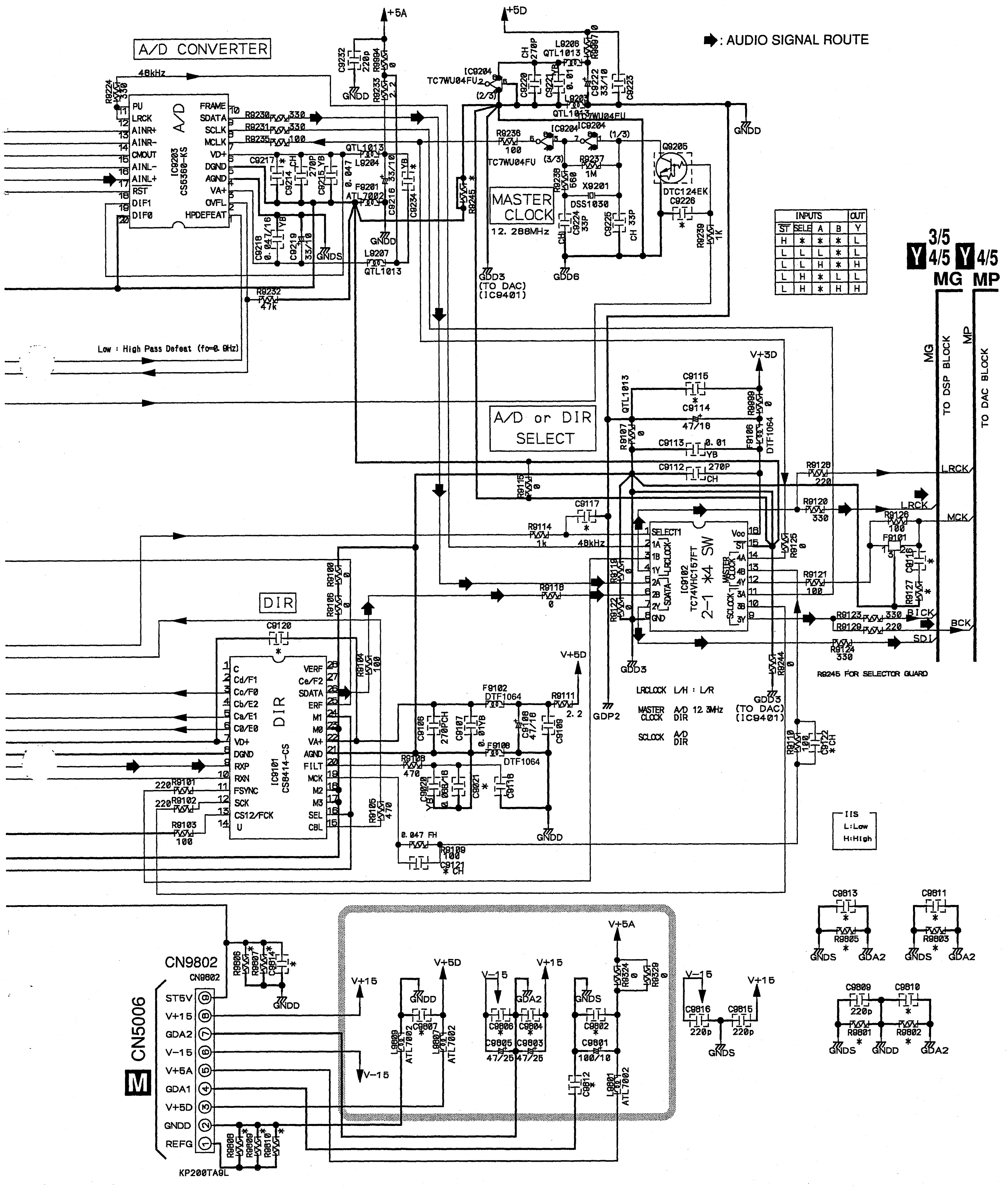
A
B
C
D

3.17 DSP ASSY (2/5)


CN9801
REFG
LIN
GNDS
RIN
LOUT
ROUT
LSOUT
RSOUT
COUT
SWOUT
KP200TA17L
M CN5007
TO ANALOG POST PROCESSING BLOCK
ME
ME Y 5/5
INPUT ATT
R9203 6.8K
C9203 4.7/50
R9201 6.8K
R9207 6.8K
C9201 27P
IC9201(1/2) NJM2100M
Q9201 2SC3326(AB)
Q9202 2SC3326(AB)
R9219 22K
R9220 22K
R9204 6.8K
C9204 4.7/50
R9202 6.8K
R9208 6.8K
C9202 27P
IC9202(1/2) NJM2100M
R9211 4.7K
R9212 4.7K
IC9201 NJM2100M (2/2)
NJM2100M (2/2) IC9202
R9218 4.7K
R9222 4.7K
V+5A
D9203 1SS226
D9204 1SS226
D9201 1SS226
D9202 1SS226
R9217 150
R9216 150
R9223 150
R9215 150
C9212 1000P
R9225 1K
GNDS
MF Y 4/5
ARST
ADHP
OVFL
XSTP
ATT
ERR
TO SUB U-COM, DSP, ANALOG POST PROCESSING BLOCK
V+15
Q9203 DTA124EK
Q9204 DTC124EK
R9221 100k
V-15
GDA2
R9242
C9228
GNDD
VSX-39TX, VSX-37TX ONLY *
Y 1/5
MA
TO DEMODULATOR BLOCK
CN9804 KM250MA3
W CN1250
RFGND
RFSIG
RFG
RFS
DEMO
V+5D
Q9102 DTA124EK
Q9104 DTA124EK
R9113 22K
R9116 22K
R9112 560
R9117 1k
Q9101
Q9103
C9110 0.47/50
C9111 6800P
DTC124EK
VSX-36TX, VSX-D909S ONLY
SELA
SELB
SELC
CSEL
CBL
EMPH
PCMD
C/P
F9101 DTF1064
C9101
C9102 47/16
C9103 0.01
C9104 CH 270P
L9107 QTL1013
C9105 0.01
ST5V
R9804 0
CN9803 HLEM13S-1
V+5D
GNDD
COAX1
COAX2
OPT1
OPT2
OPTOUT
OPT3
OPT4
W CN1201
R9131 0
R9161 0
R9162 0
R9158 0
R9160
F9151 DTF1064
F9152 DTF1064
C9151
C9152 47/16
C9153
C9154 0.01
CH 270p
R9151 100K
R9152 100K
R9153 0
IC9151 TC74ACT151F
8-1 SW
Vcc D4 D5 D6 D7 A B C
D3 D2 D1 D0 Y W ST GND
R9165 1k
R9166
R9167 1k
C9157
C9156
C9155
GDD2
R9995 0
R9996 0
R9163 0
R9164 100K
R9155 100K
R9156 100K
R9157 0
R9159 100
R9168 100
C9158 0.01
DIGITAL INPUT SELECT

Y 2/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)

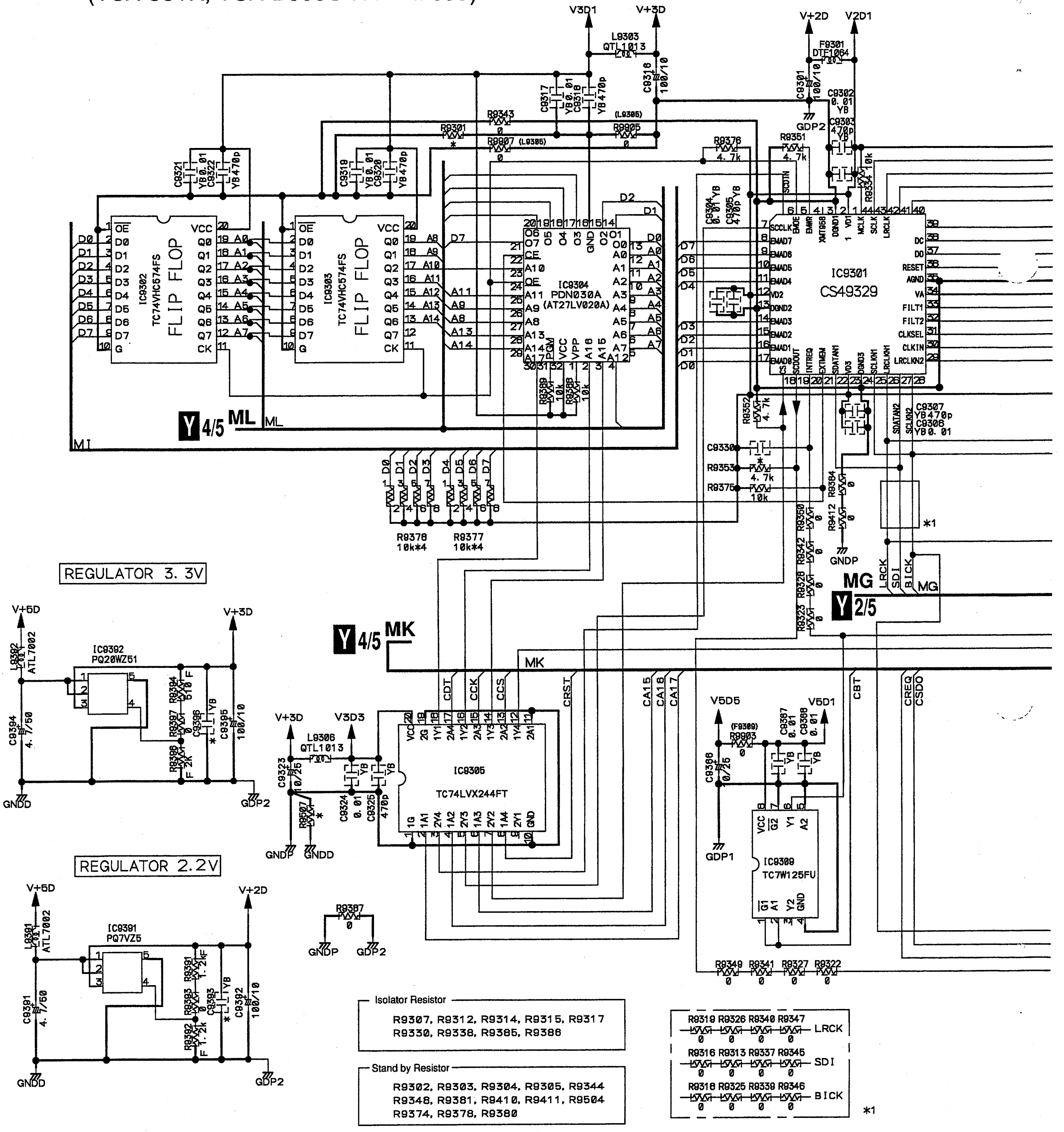
▭ : The power supply is shown with the marked box.


A/D CONVERTER
IC9203 CS5360-KS
A/D
48kHz
MASTER CLOCK
12.288MHz
X9201 DSS1030
IC9204 TC7WU04FU
Q9205 DTC124EK
(TO DAC) (IC9401)
➡: AUDIO SIGNAL ROUTE
Low : High Pass Defeat (fc=0.9Hz)
A/D or DIR SELECT
IC9102 TC74VHC157FT
2-1 ×4 SW
DIR
IC9101 CS8414-CS
LRCK
MCK
BICK
BCK
SDI
MG
MP
TO DSP BLOCK
TO DAC BLOCK
R9245 FOR SELECTOR GUARD
LRCLOCK L/H : L/R
MASTER CLOCK A/D 12.3MHz DIR
SCLOCK A/D DIR
IIS L:Low H:High
CN9802
CN5006
ST5V
V+15
GDA2
V-15
V+5A
GDA1
V+5D
GNDD
REFG
KP200TA9L
+5A
+5D
V+3D
V+5D
GNDD
GNDS
GDA2
3/5 Y 4/5 Y 4/5
MG MP
M

INPUTS				OUT
ST	SELECT	A	B	Y
H	*	*	*	L
L	L	L	*	L
L	L	H	*	H
L	H	*	L	L
L	H	*	H	H

3.18 DSP ASSY (3/5)

Y 3/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)

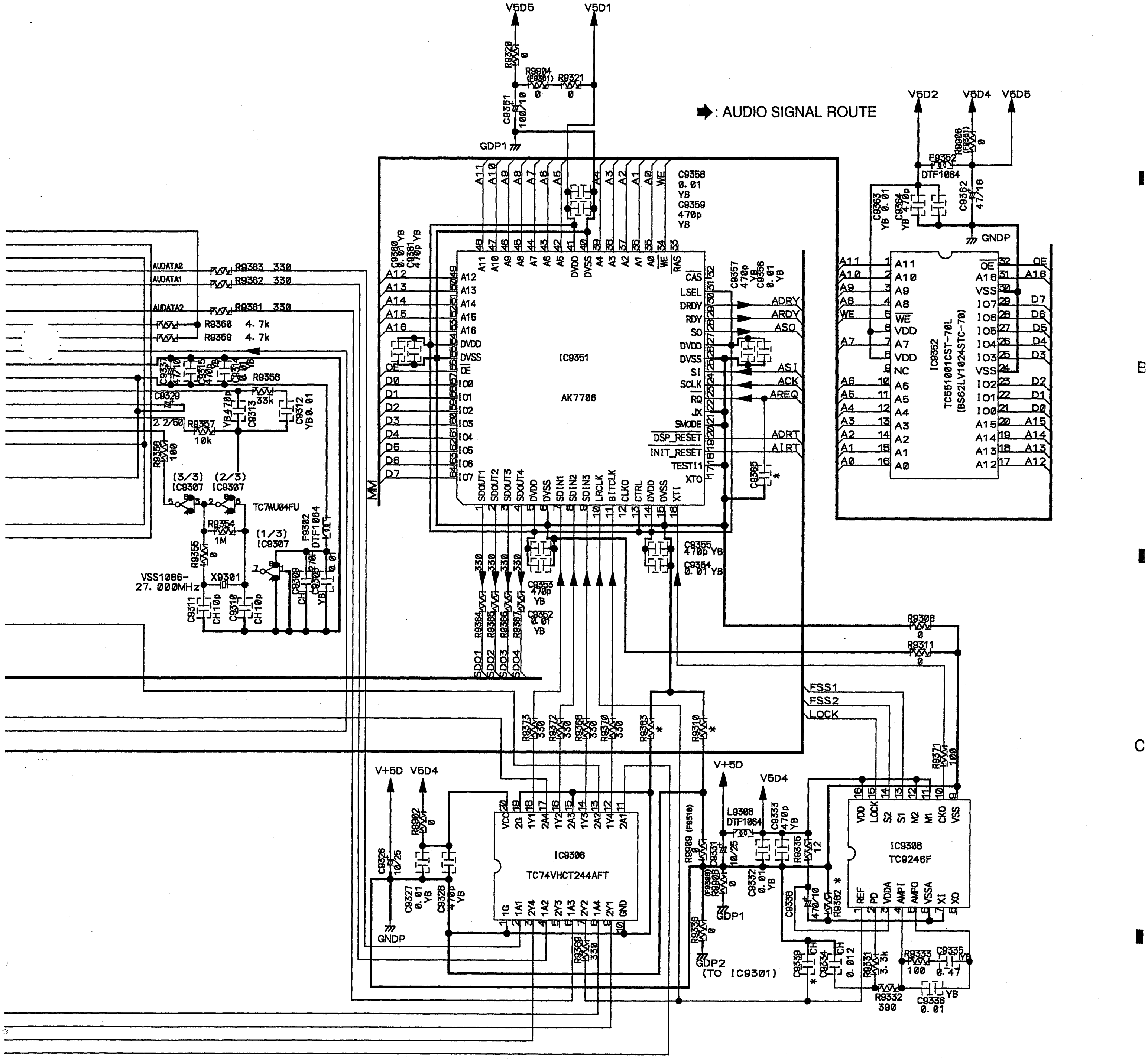

V3D1
V+3D
L9303 QTL1013
V+2D
V2D1
F9301 DTF1064
C9301 100/10
C9302 0.01 YB
C9303 470p YB
GDP2
C9316 100/10
C9317
C9318
R9343
R9301
R9907 (L9386)
R9905 (L9305)
R9376 4.7k
R9351 4.7k
C9321
C9322
C9319
C9320
IC9302 TC74VHC574FS FLIP FLOP
IC9303 TC74VHC574FS FLIP FLOP
IC9304 PDN030A (AT27LV020A)
IC9301 CS49329
D0
D1
D2
D3
D4
D5
D6
D7
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
R9389 10k
R9388 10k
R9352 4.7k
C9330
R9353 4.7k
R9375 10k
R9384
R9412
R9350
R9342
R9328
R9323
C9307 YB470p
C9306 YB0.01
GNDP
*1
R9378 10k*4
R9377 10k*4
Y 4/5 ML
MI
MG
LRCK
SDI
BICK
Y 2/5
Y 4/5 MK
MK
CDT
CCK
CCS
CRST
CA15
CA16
CA17
CBT
CREQ
CSDO
REGULATOR 3.3V
V+5D
V+3D
L9392 ATL7002
IC9392 PQ20WZ51
C9394 4.7/50
R9394 510 F
R9397
C9396 YB
C9395 100/10
R9386 2K F
GNDD
GDP2
V+3D
V3D3
L9306 QTL1013
C9323 10/25
C9324 0.01
C9325 470p
R9507
GNDP
GNDD
IC9305 TC74LVX244FT
V5D5
V5D1
R9903 (F9389)
C9387 0.01
C9388 0.01
C9386 10/25
GDP1
IC9309 TC7W125FU
R9349
R9341
R9327
R9322
REGULATOR 2.2V
V+5D
V+2D
L9391 ATL7002
IC9391 PQ7VZ5
C9391 4.7/50
R9391 1.2k F
R9393
C9393 YB
C9392 100/10
R9392 1.2k F
GNDD
GDP2
R9387 0
GNDP
GDP2

Isolator Resistor
R9307, R9312, R9314, R9315, R9317
R9330, R9338, R9385, R9386

Stand by Resistor
R9302, R9303, R9304, R9305, R9344
R9348, R9381, R9410, R9411, R9504
R9374, R9378, R9380

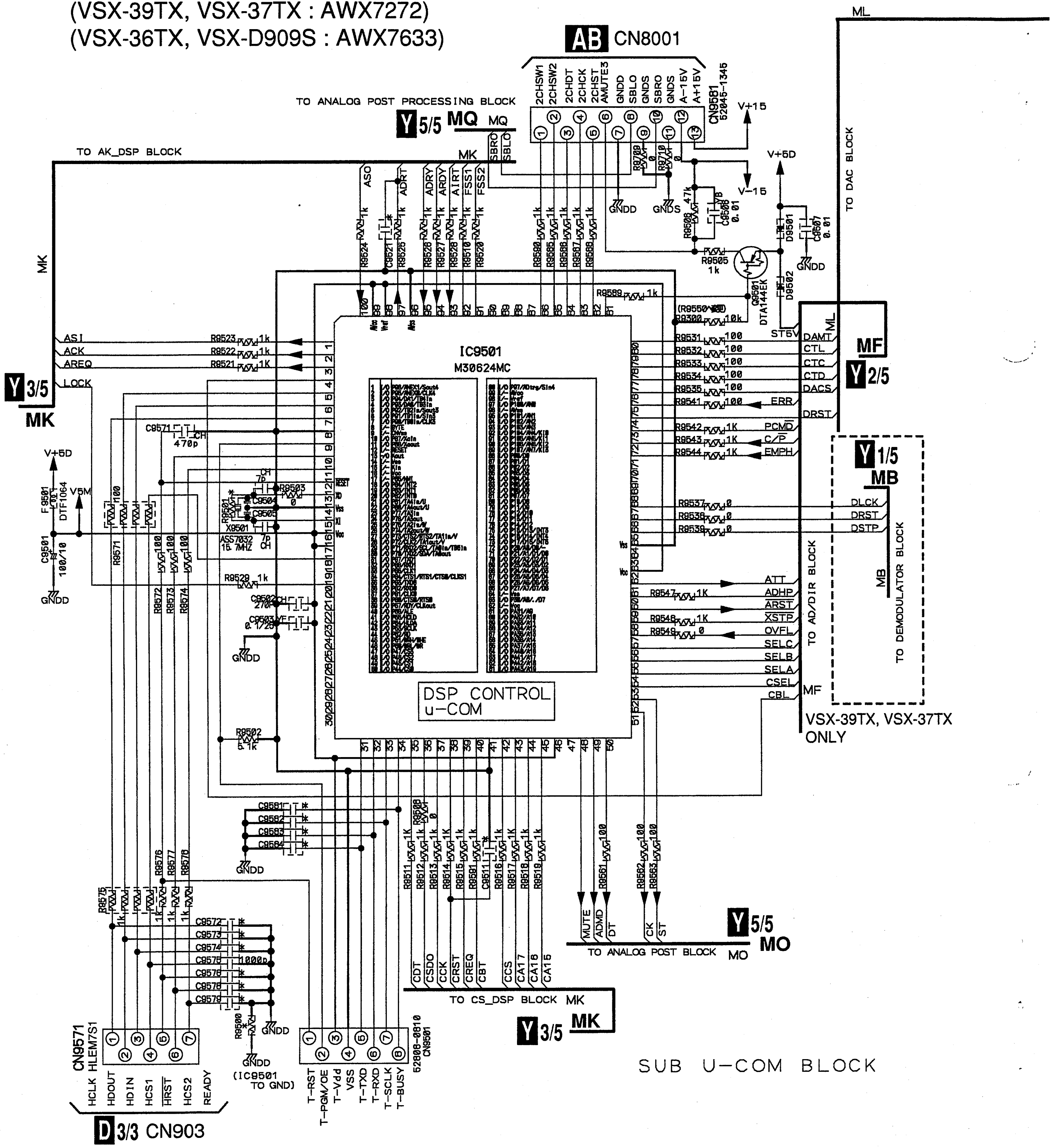
R9319	R9326	R9340	R9347	LRCK
0	0	0	0	
R9316	R9313	R9337	R9345	SDI
0	0	0	0	
R9318	R9325	R9339	R9346	BICK
0	0	0	0	

*1

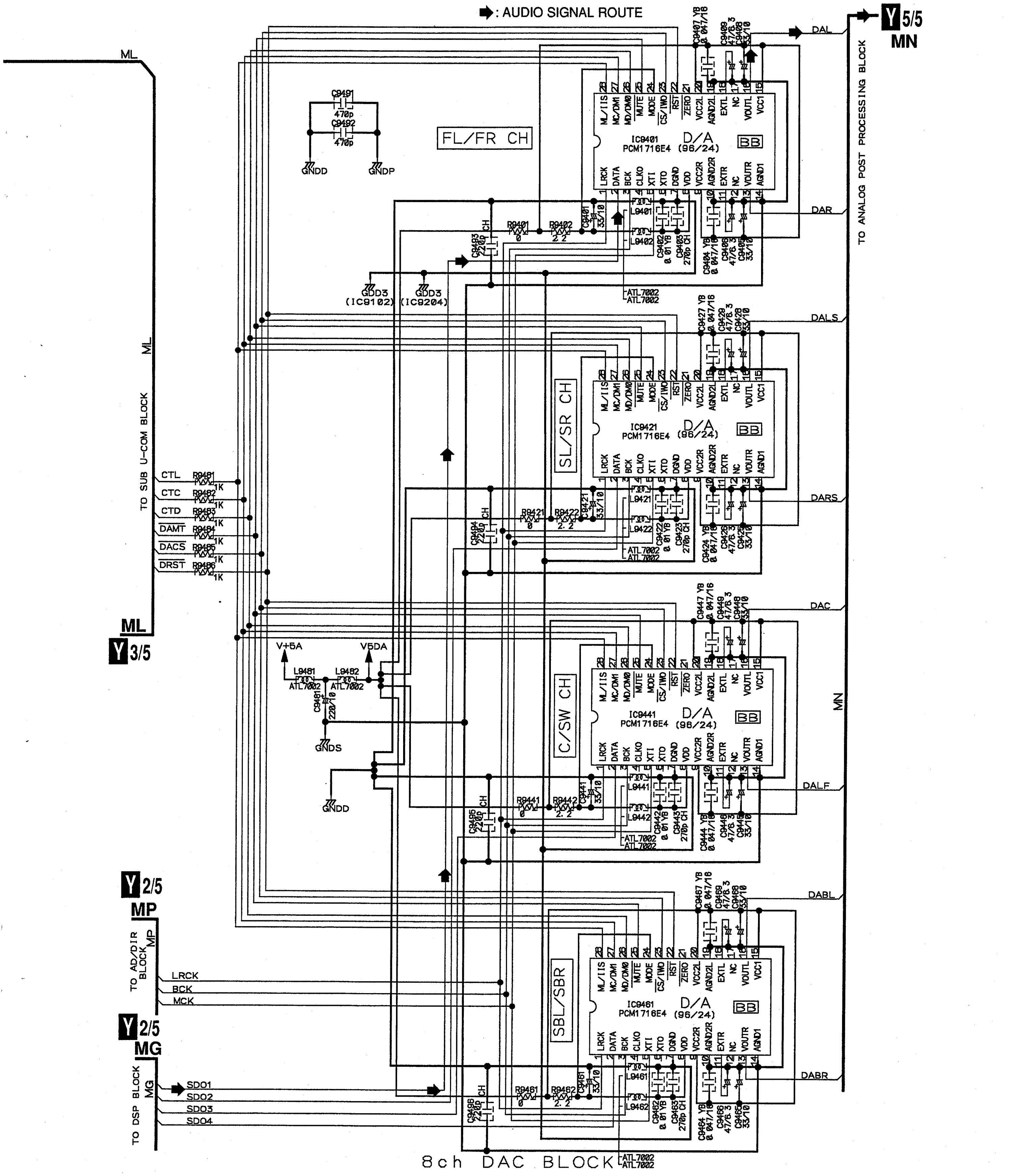

➡: AUDIO SIGNAL ROUTE
V5D5
V5D1
V5D2
V5D4
V5D5
GDP1
GNDP
IC9351
AK7706
IC9352
TC551001CST-70L
(BS62LV1024STC-70)
IC9306
TC74VHCT244AFT
IC9308
TC9246F
IC9307
TC7WU04FU
X9301
VSS1066-
27.000MHz
F9302
DTF1064
F9352
DTF1064
L9308
DTF1064
AUDATA0
AUDATA1
AUDATA2
R9363 330
R9362 330
R9361 330
R9360 4.7k
R9359 4.7k
ADRY
ARDY
ASO
ASI
ACK
AREQ
ADRT
AIRT
SDO1
SDO2
SDO3
SDO4
FSS1
FSS2
LOCK
V+5D
V5D4
GDP2
(TO IC9301)

3.19 DSP ASSY (4/5)

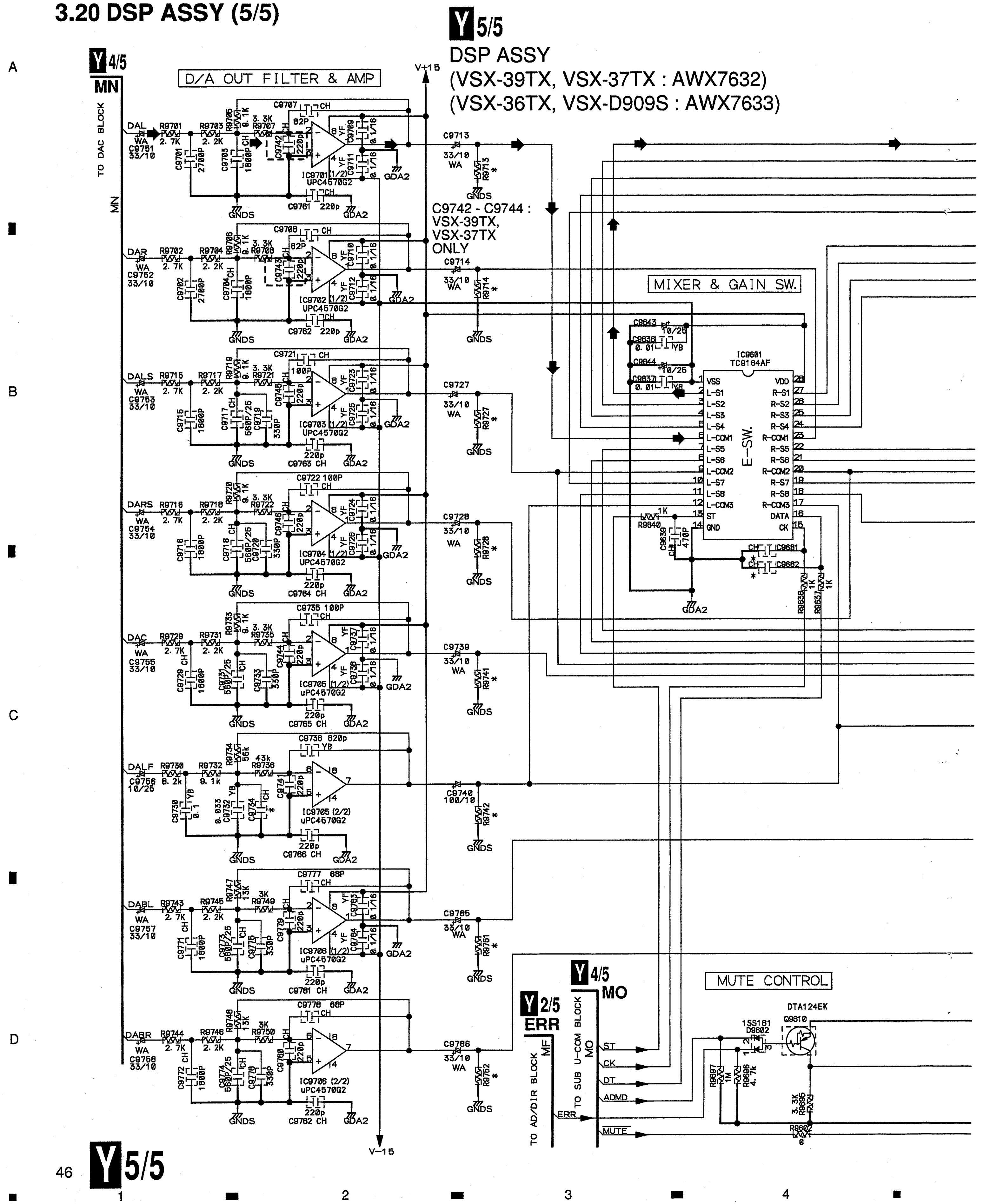
Y 4/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7272)
(VSX-36TX, VSX-D909S : AWX7633)

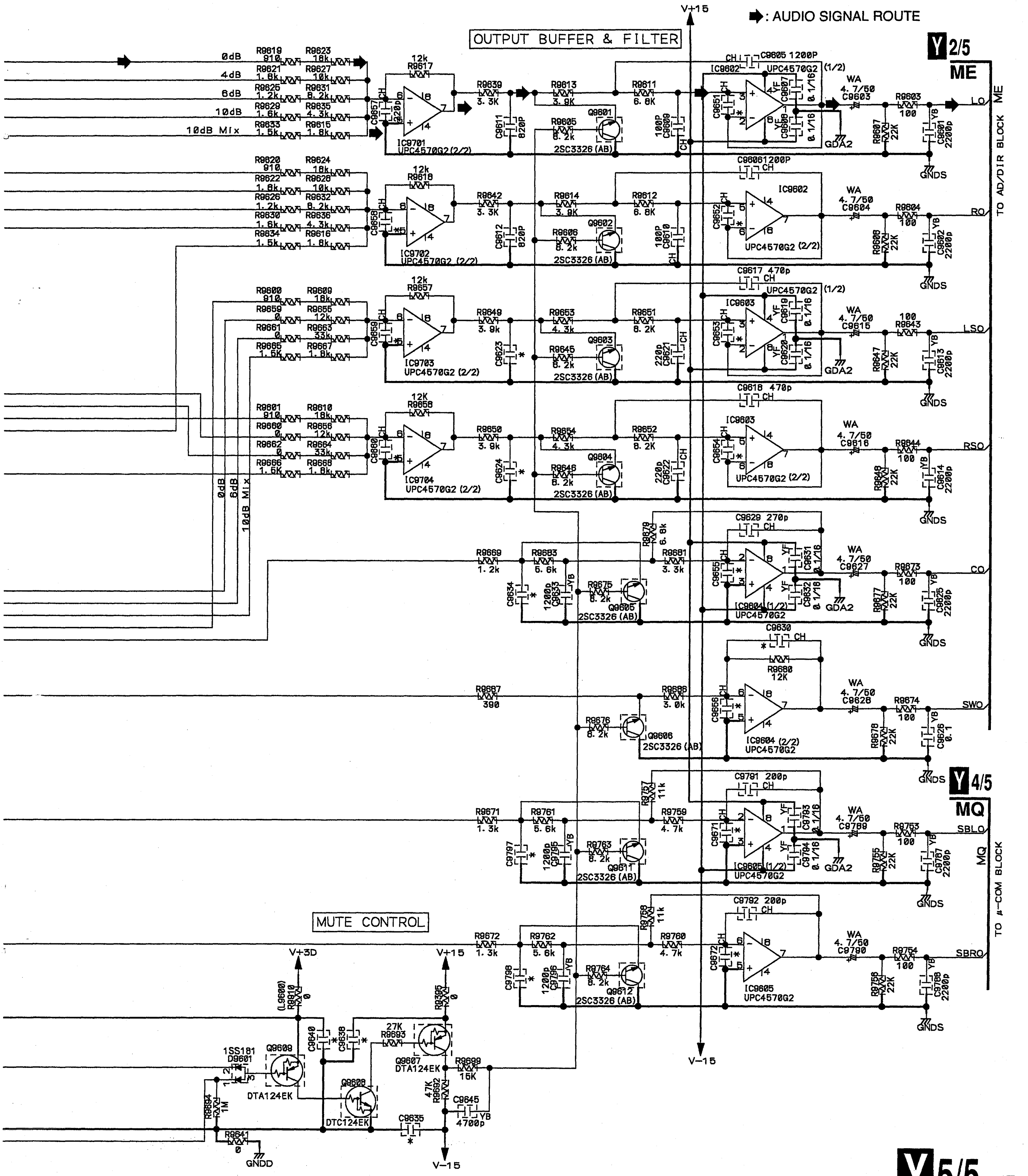

AB CN8001
2CHSW1
2CHSW2
2CHDT
2CHCK
2CHST
AMUTE3
GNDD
SBLO
GNDS
SBRO
GNDS
A-15V
A+15V
CN9581 52045-1345
TO ANALOG POST PROCESSING BLOCK
Y 5/5 MQ
TO AK_DSP BLOCK
MK
SBRO
SBLO
ASO
ADRT
ADRY
ARDY
AIRT
FSS1
FSS2
V+15
V-15
V+5D
GNDD
GNDS
R9709
R9710
R9506 47k
C9506 0.01
R9505 1k
Q9501 DTA144EK
D9501
D9502
C9507 0.01
TO DAC BLOCK
ML
R9524
C9521
R9525
R9526
R9527
R9528
R9510
R9520
R9580
R9585
R9586
R9587
R9588
R9589 1k
(R9550/100)
R9300 10k
ST5V
IC9501
M30624MC
DSP CONTROL
u-COM
ASI
ACK
AREQ
LOCK
R9523 1k
R9522 1k
R9521 1K
Y 3/5 MK
C9571 470p
V+5D
V5M
F9501
DTF1064
C9501 100/10
GNDD
R9571
R9572
R9573
R9574
X9501
AS57032
15.7MHZ
C9504
C9505
R9501
R9503 0
R9529 1k
C9502 270P
C9503 0.1/20
R9502 5.1k
R9531 100
R9532 100
R9533 100
R9534 100
R9535 100
R9541 100
DAMT
CTL
CTC
CTD
DACS
ERR
DRST
MF
Y 2/5
R9542 1K
R9543 1K
R9544 1K
PCMD
C/P
EMPH
Y 1/5 MB
R9537 0
R9538 0
R9539 0
DLCK
DRST
DSTP
TO DEMODULATOR BLOCK
ATT
ADHP
ARST
XSTP
OVFL
SELC
SELB
SELA
CSEL
CBL
R9547 1K
R9548 1K
R9549 0
TO AD/DIR BLOCK
VSX-39TX, VSX-37TX ONLY
C9581
C9582
C9583
C9584
R9508 0
R9511
R9512
R9513
R9514
R9515
R9581
C9511
R9516
R9517
R9518
R9519
R9561 100
R9562 100
R9563 100
MUTE
ADMD
DT
CK
ST
TO ANALOG POST BLOCK MO
Y 5/5 MO
CDT
CSDO
CCK
CRST
CREQ
CBT
CCS
CA17
CA18
CA15
TO CS_DSP BLOCK MK
Y 3/5 MK
R9575
R9576
R9577
R9578
C9572
C9573
C9574
C9575 1000p
C9576
C9578
C9579
R9500
(IC9501 TO GND)
CN9571 HLEM7S1
HCLK
HDOUT
HDIN
HCS1
HRST
HCS2
READY
D 3/3 CN903
CN9501 52808-0810
T-RST
T-PGM/OE
T-Vdd
VSS
T-TXD
T-RXD
T-SCLK
T-BUSY

SUB U-COM BLOCK

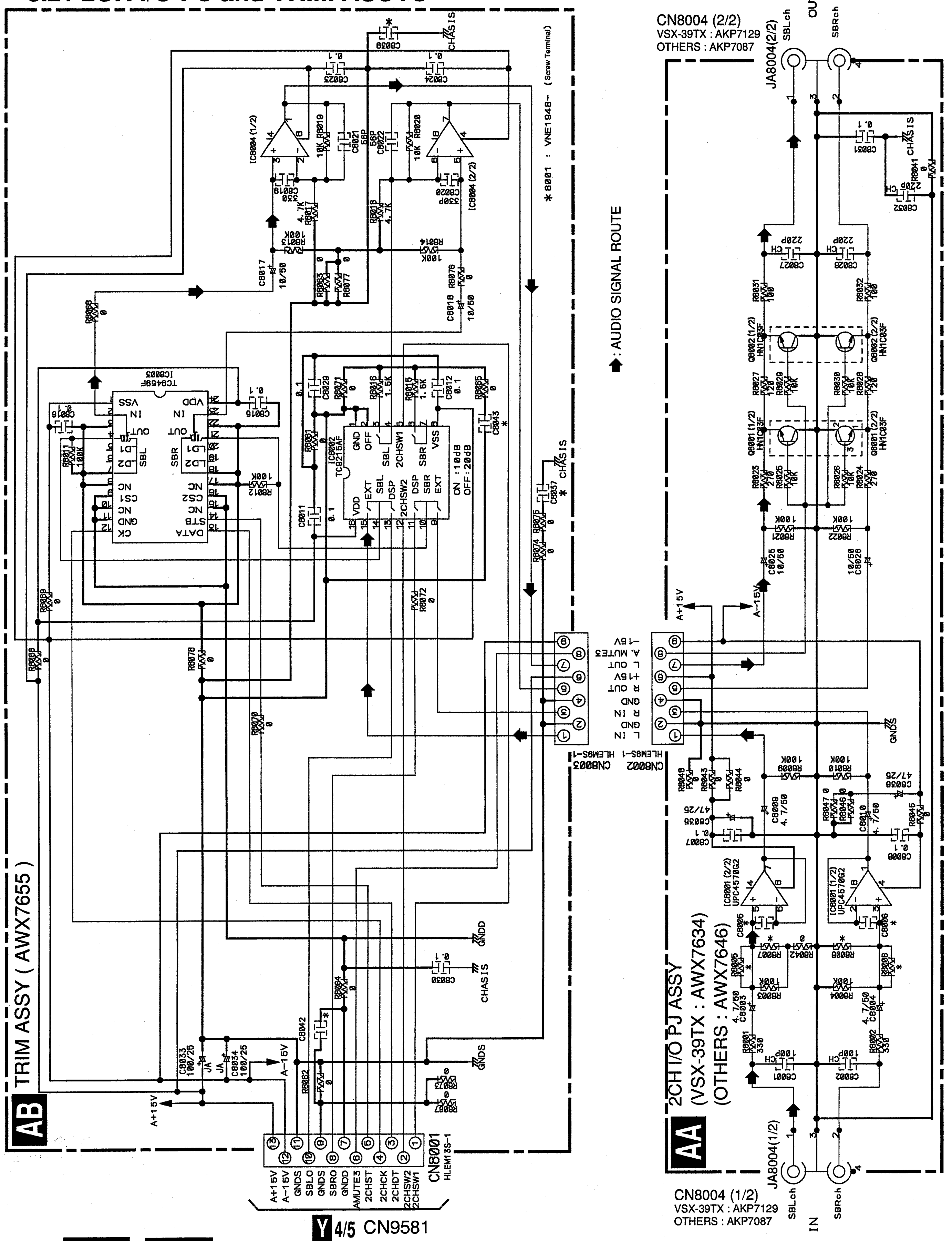

➡: AUDIO SIGNAL ROUTE
Y 5/5
MN
DAL
DAR
DALS
DARS
DAC
DALF
DABL
DABR
TO ANALOG POST PROCESSING BLOCK
MN
ML
TO SUB U-COM BLOCK
ML
Y 3/5
CTL
CTC
CTD
DAMT
DACS
DRST
R9481
R9482
R9483
R9484
R9485
R9486
1K
FL/FR CH
SL/SR CH
C/SW CH
SBL/SBR
IC9401
PCM1716E4 (96/24)
IC9421
PCM1716E4 (96/24)
IC9441
PCM1716E4 (96/24)
IC9461
PCM1716E4 (96/24)
D/A
BB
ML/IIS
MC/DM1
MD/DM0
MUTE
MODE
CS/IWO
RST
ZERO
VCC2L
AGND2L
EXTL
NC
VOUTL
VCC1
LRCK
DATA
BCK
CLKO
XTI
XTO
DGND
VDD
VCC2R
AGND2R
EXTR
NC
VOUTR
AGND1
C9491
C9492
470p
GNDD
GNDP
GDD3 (IC9102)
GDD3 (IC9204)
C9493 220p CH
C9494 220p CH
C9495 220p CH
C9496 220p CH
R9401 0
R9402 2.2
R9421 0
R9422 2.2
R9441 0
R9442 2.2
R9461 0
R9462 2.2
C9401 33/10
C9421 33/10
C9441 33/10
C9461 33/10
L9401
L9402
L9421
L9422
L9441
L9442
L9461
L9462
ATL7002
C9402 0.01 YB
C9403 270p CH
C9422 0.01 YB
C9423 270p CH
C9442 0.01 YB
C9443 270p CH
C9462 0.01 YB
C9463 270p CH
C9404 YB 0.047/16
C9405 33/10
C9406 47/6.3
C9407 YB 0.047/16
C9408 33/10
C9409 47/6.3
C9424 YB 0.047/16
C9425 33/10
C9426 47/6.3
C9427 YB 0.047/16
C9428 33/10
C9429 47/6.3
C9444 YB 0.047/16
C9445 33/10
C9446 47/6.3
C9447 YB 0.047/16
C9448 33/10
C9449 47/6.3
C9464 YB 0.047/16
C9465 33/10
C9466 47/6.3
C9467 YB 0.047/16
C9468 33/10
C9469 47/6.3
V+5A
V5DA
L9481
L9482
ATL7002
C9481 220/10
GNDS
GNDD
Y 2/5
MP
TO AD/DIR BLOCK
MP
LRCK
BCK
MCK
Y 2/5
MG
TO DSP BLOCK
MG
SDO1
SDO2
SDO3
SDO4
8ch DAC BLOCK

3.20 DSP ASSY (5/5)


Y 5/5
DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)
A
B
C
D
Y 4/5
MN
TO DAC BLOCK
MN
D/A OUT FILTER & AMP
V+15
V-15
DAL
DAR
DALS
DARS
DAC
DALF
DABL
DABR
R9701 2.7K
R9703 2.2K
R9705 9.1K
R9707 3.3K
C9707 82P CH
C9742
C9709 0.1/16
C9711 0.1/16
C9701 2700P
C9703 1800P CH
C9751 33/10 WA
IC9701 (1/2) UPC4570G2
C9761 220p CH
C9713 33/10 WA
R9713 *
GNDS
GDA2
C9742 - C9744 :
VSX-39TX,
VSX-37TX
ONLY
R9702 2.7K
R9704 2.2K
R9706 9.1K
R9708 3.3K
C9708 82P CH
C9743
C9710
C9712
C9702 2700P
C9704 1800P CH
C9752 33/10 WA
IC9702 (1/2) UPC4570G2
C9762 220p CH
C9714 33/10 WA
R9714 *
R9715 2.7K
R9717 2.2K
R9719 9.1K
R9721 3.3K
C9721 100P CH
C9745 220p
C9723 0.1/16
C9725 0.1/16
C9715 1800P
C9717 560P/25 CH
C9719 330P
C9753 33/10 WA
IC9703 (1/2) UPC4570G2
C9763 220p CH
C9727 33/10 WA
R9727 *
R9716 2.7K
R9718 2.2K
R9720 9.1K
R9722 3.3K
C9722 100P CH
C9746 220p
C9724 0.1/16
C9726 0.1/16
C9716 1800P
C9718 560P/25 CH
C9720 330P
C9754 33/10 WA
IC9704 (1/2) UPC4570G2
C9764 220p CH
C9728 33/10 WA
R9728 *
R9729 2.7K
R9731 2.2K
R9733 9.1K
R9735 3.3K
C9735 100P CH
C9744 220p
C9737 0.1/16
C9738 0.1/16
C9729 1800P CH
C9731 560P/25 CH
C9733 330P
C9755 33/10 WA
IC9705 (1/2) uPC4570G2
C9765 220p CH
C9739 33/10 WA
R9741 *
R9730 8.2k
R9732 9.1k
R9734 56k
R9736 43k
C9736 820p YB
C9741 220p
C9730 0.1 YB
C9732 0.033 YB
C9734 CH *
C9756 10/25
IC9705 (2/2) uPC4570G2
C9766 220p CH
C9740 100/10
R9742 *
R9743 2.7K
R9745 2.2K
R9747 13K
R9749 3K
C9777 68P CH
C9779 220p
C9783 0.1/16
C9784 0.1/16
C9771 1800P CH
C9773 560P/25 CH
C9775 330P
C9757 33/10 WA
IC9706 (1/2) uPC4570G2
C9781 220p CH
C9785 33/10 WA
R9751 *
R9744 2.7K
R9746 2.2K
R9748 13K
R9750 3K
C9778 68P CH
C9780 220p
C9772 1800P CH
C9774 560P/25 CH
C9776 330P
C9758 33/10 WA
IC9706 (2/2) uPC4570G2
C9782 220p CH
C9786 33/10 WA
R9752 *
MIXER & GAIN SW.
C9643 10/25
C9636 0.01 YB
C9644 10/25
C9637 0.01 YB
IC9601 TC9164AF
E-SW.
1 VSS
2 L-S1
3 L-S2
4 L-S3
5 L-S4
6 L-COM1
7 L-S5
8 L-S6
9 L-COM2
10 L-S7
11 L-S8
12 L-COM3
13 ST
14 GND
28 VDD
27 R-S1
26 R-S2
25 R-S3
24 R-S4
23 R-COM1
22 R-S5
21 R-S6
20 R-COM2
19 R-S7
18 R-S8
17 R-COM3
16 DATA
15 CK
R9640 1K
C9639 470P CH
C9661 CH
C9662 CH *
R9638 1K
R9637 1K
GDA2
Y 4/5
MO
TO SUB U-COM BLOCK
MO
ST
CK
DT
ADMD
ERR
MUTE
Y 2/5
ERR
TO AD/DIR BLOCK
MF
MUTE CONTROL
DTA124EK
Q9610
1SS181
D9602
R9697 1M
R9696 4.7k
R9695 3.3K
R9601 0


➡: AUDIO SIGNAL ROUTE
OUTPUT BUFFER & FILTER
MUTE CONTROL
V+15
V−15
V+3D
Y 2/5
ME
Y 4/5
MQ
TO AD/DIR BLOCK ME
TO μ-COM BLOCK MQ
0dB
4dB
6dB
10dB
10dB Mix
6dB
10dB Mix
LO
RO
LSO
RSO
CO
SWO
SBLO
SBRO
IC9701 UPC4570G2 (2/2)
IC9702 UPC4570G2 (2/2)
IC9703 UPC4570G2 (2/2)
IC9704 UPC4570G2 (2/2)
IC9602 UPC4570G2 (1/2)
IC9602 UPC4570G2 (2/2)
IC9603 UPC4570G2 (1/2)
IC9603 UPC4570G2 (2/2)
IC9604 (1/2) UPC4570G2
IC9604 (2/2) UPC4570G2
IC9605 (1/2) UPC4570G2
IC9605 UPC4570G2
Q9601 2SC3326 (AB)
Q9602 2SC3326 (AB)
Q9603 2SC3326 (AB)
Q9604 2SC3326 (AB)
Q9605 2SC3326 (AB)
Q9606 2SC3326 (AB)
Q9611 2SC3326 (AB)
Q9612 2SC3326 (AB)
Q9609 DTA124EK
Q9608 DTC124EK
Q9607 DTA124EK
1SS181 D9601
GDA2
GNDS
GNDD
WA 4.7/50

3.21 2CH I/O PJ and TRIM ASSYS


1
2
3
4
A
B
C
D
AB
TRIM ASSY (AWX7655)
AA
2CH I/O PJ ASSY
(VSX-39TX : AWX7634)
(OTHERS : AWX7646)
CN8004 (2/2)
VSX-39TX : AKP7129
OTHERS : AKP7087
JA8004(2/2)
SBLch
SBRch
OUT
CN8004 (1/2)
VSX-39TX : AKP7129
OTHERS : AKP7087
JA8004(1/2)
IN
: AUDIO SIGNAL ROUTE
* 8001 : VNE1948- (Screw Terminal)
IC8004 (1/2)
IC8004 (2/2)
IC8003
TC9459F
IC8002
TC9215AF
ON :10dB
OFF :20dB
VDD
VSS
IN
OUT
SBL
SBR
LD1
LD2
NC
CS1
CS2
GND
CK
STB
DATA
EXT
DSP
2CHSW1
2CHSW2
Q8001 (1/2)
Q8001 (2/2)
Q8002 (1/2)
Q8002 (2/2)
HN1C03F
IC8001 (1/2)
IC8001 (2/2)
UPC4570G2
CN8003
CN8002
HLEM8S-1
-15V
A. MUTE3
L OUT
+15V
R OUT
GND
R IN
L IN
CHASSIS
GNDD
GNDS
A+15V
A-15V
CN8001
HLEM13S-1
A+15V
A-15V
GNDS
SBLO
GNDS
SBRO
GNDD
AMUTE3
2CHST
2CHCK
2CHDT
2CHSW2
2CHSW1
Y 4/5 CN9581

3.22 COMPONENT ASSY

Z COMPONENT ASSY
(VSX-39TX : AWX7635)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7636)

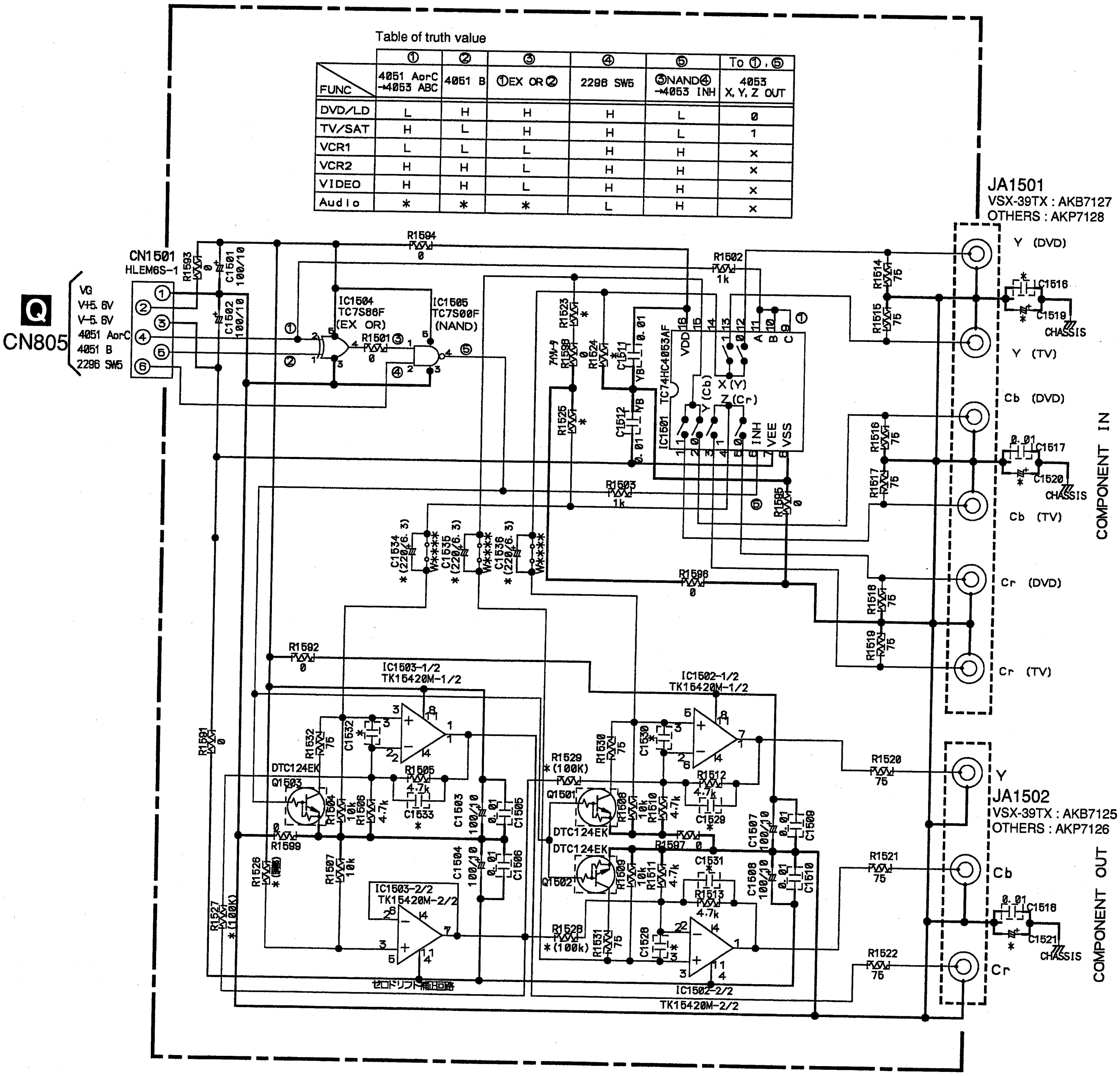

JA1501
VSX-39TX : AKB7127
OTHERS : AKP7128
Y (DVD)
Y (TV)
Cb (DVD)
Cb (TV)
Cr (DVD)
Cr (TV)
COMPONENT IN
JA1502
VSX-39TX : AKB7125
OTHERS : AKP7126
Y
Cb
Cr
COMPONENT OUT
CHASSIS
Q
CN805
CN1501
HLEM6S-1
VG
V+5.6V
V-5.6V
4051 AorC
4051 B
2296 SW5
IC1504
TC7S86F
(EX OR)
IC1505
TC7S00F
(NAND)
IC1501 TC74HC4053AF
VDD
VEE
VSS
INH
X (Y)
Y (Cb)
Z (Cr)
IC1503-1/2
TK15420M-1/2
IC1503-2/2
TK15420M-2/2
IC1502-1/2
TK15420M-1/2
IC1502-2/2
TK15420M-2/2
Q1503
Q1501
Q1502
DTC124EK
ゼロドリフト補正回路
R1594 0
R1502 1k
R1503 1k
R1501 0
R1595 0
R1596 0
R1592 0
R1597 0
R1593 0
R1591 0
R1514 75
R1515 75
R1516 75
R1517 75
R1518 75
R1519 75
R1520 75
R1521 75
R1522 75
R1529 *(100K)
R1528 *(100k)
R1527 *(100K)
C1501 100/10
C1502 100/10
C1503 100/10
C1504 100/10
C1507 100/10
C1508 100/10
C1511 0.01
C1512 0.01
C1516 0.01
C1517 0.01
C1518 0.01
C1534 *(220/6.3)
C1535 *(220/6.3)
C1536 *(220/6.3)

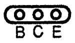
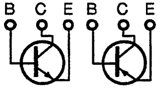
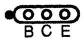
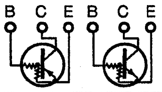
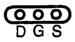
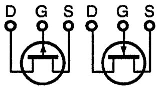
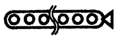
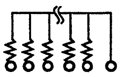
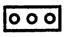
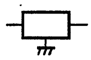
Table of truth value

FUNC	① 4051 AorC →4053 ABC	② 4051 B	③ ①EX OR②	④ 2296 SW5	⑤ ③NAND④ →4053 INH	To ①, ⑤ 4053 X, Y, Z OUT
DVD/LD	L	H	H	H	L	0
TV/SAT	H	L	H	H	L	1
VCR1	L	L	L	H	H	×
VCR2	H	H	L	H	H	×
VIDEO	H	H	L	H	H	×
Audio	*	*	*	L	H	×

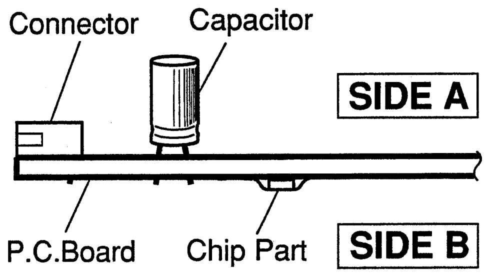
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

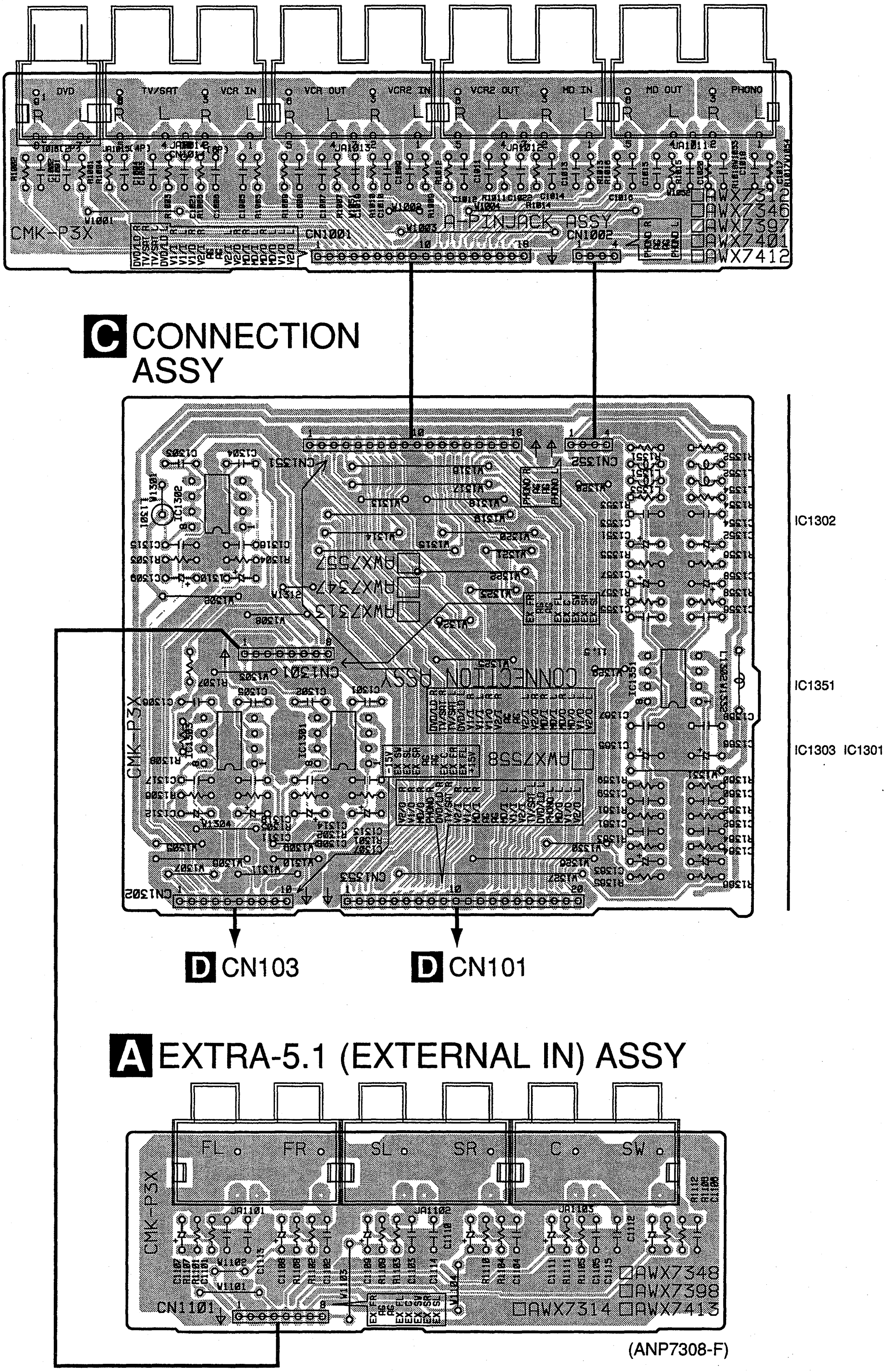

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 EXTRA-5.1 (EXTERNAL IN), A-PINJACK and CONNECTION ASSYS

B A-PINJACK ASSY

C CONNECTION ASSY

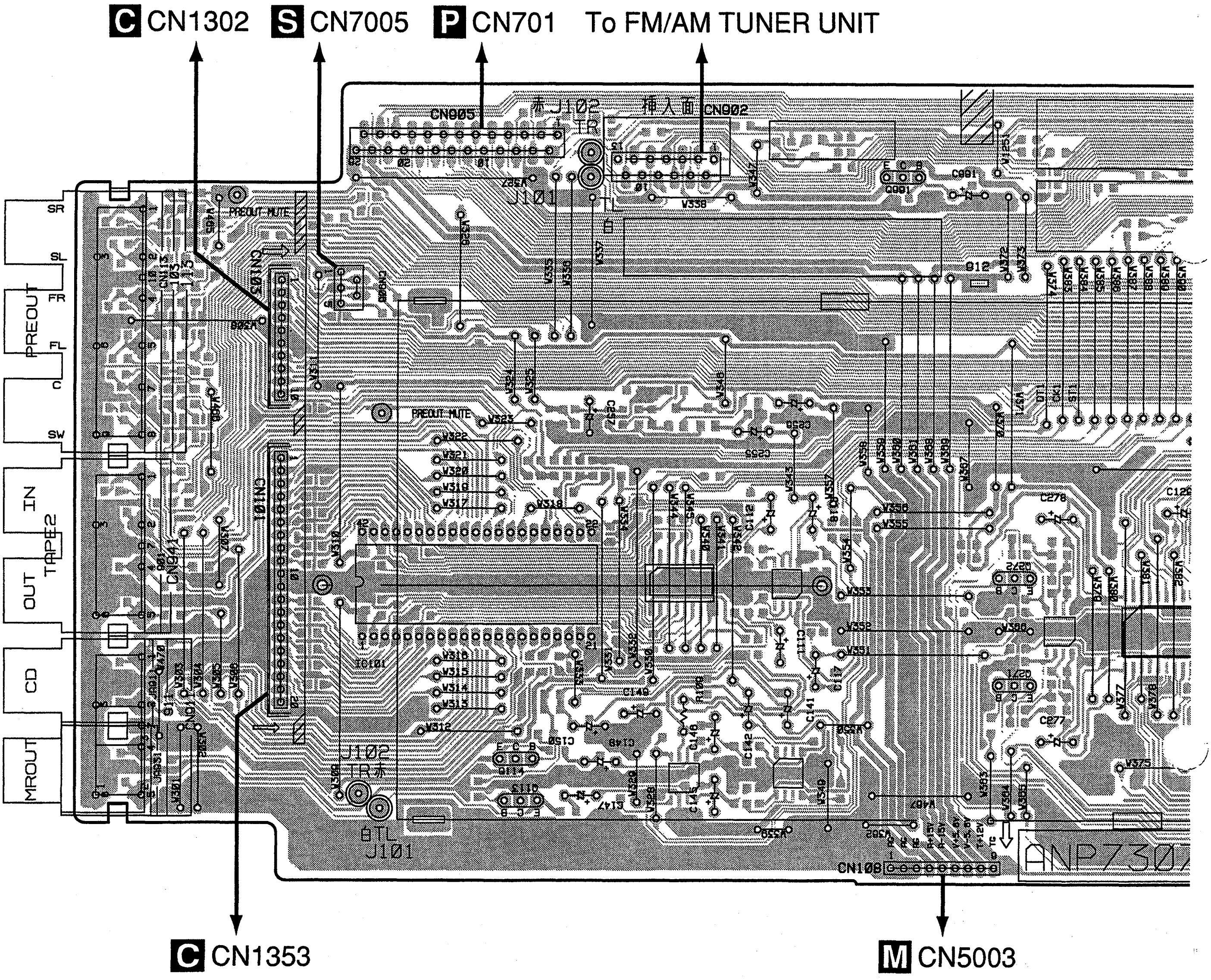
A EXTRA-5.1 (EXTERNAL IN) ASSY


DVD
TV/SAT
VCR IN
VCR OUT
VCR2 IN
VCR2 OUT
MD IN
MD OUT
PHONO
CMK-P3X
A-PINJACK ASSY
CN1001
CN1002
AWX7346
AWX7397
AWX7401
AWX7412
CN1321
CN1322
AWX7557
AWX7347
AWX7313
CN1301
CONNECTION ASSY
AWX7558
CN1302
CN1323
IC1302
IC1351
IC1303 IC1301
D CN103
D CN101
FL
FR
SL
SR
C
SW
JA1101
JA1102
JA1103
CN1101
AWX7348
AWX7398
AWX7314
AWX7413

(ANP7308-F)

4.2 MAIN CONTROL ASSY

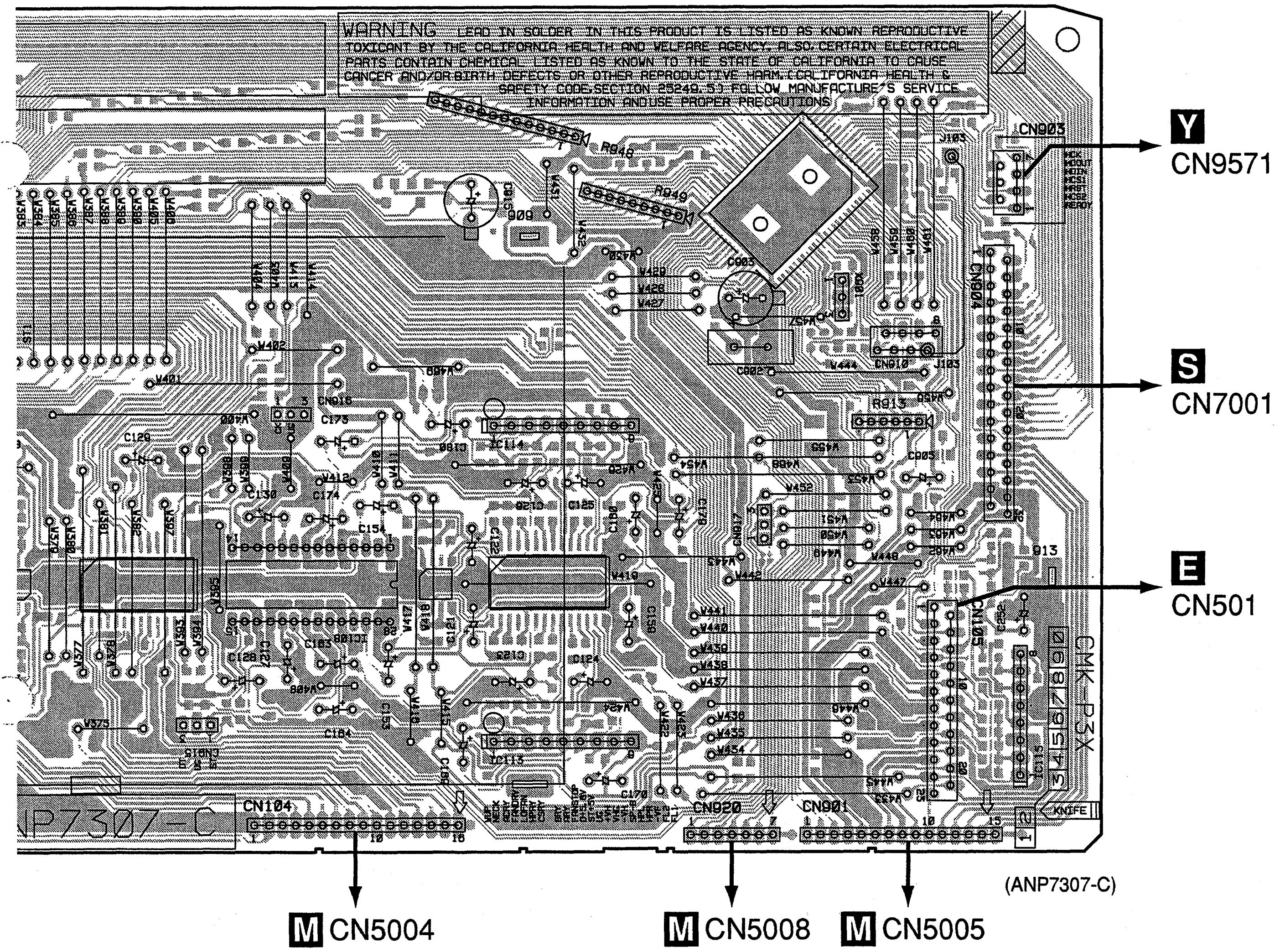
D MAIN CONTROL ASSY


C CN1302
S CN7005
P CN701
To FM/AM TUNER UNIT
CN005
CN002
J102
J101
CN103
CN101
CN108
IC101
Q991
Q114
Q113
Q272
Q271
PREOUT MUTE
SR
SL
FR
FL
C
SW
PREOUT
IN
OUT
TAPE2
CD
MROUT
CN041
ANP730
C CN1353
M CN5003

IC101
Q114
Q113
Q991
Q272
Q271

SIDE A

SIDE A


WARNING LEAD IN SOLDER IN THIS PRODUCT IS LISTED AS KNOWN REPRODUCTIVE TOXICANT BY THE CALIFORNIA HEALTH AND WELFARE AGENCY. ALSO CERTAIN ELECTRICAL PARTS CONTAIN CHEMICAL LISTED AS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.(CALIFORNIA HEALTH & SAFETY CODE,SECTION 25249.5) FOLLOW MANUFACTURE'S SERVICE INFORMATION ANDUSE PROPER PRECAUTIONS
Y CN9571
CN903
S CN7001
CN904
E CN501
CN105
CMK-P3X
KNIFE
CN104
CN920
CN901
ANP7307-C
M CN5004
M CN5008
M CN5005
R948
R949
R913
C903
C902
C905
J103
CN910
CN916
CN917
IC114
IC113
IC115
W401
W402
W420
W428
W427
W444
W455
W452
W441
W440
W439
W438
W437
W436
W435
W434

(ANP7307-C)

IC108 IC114 IC113 IC115

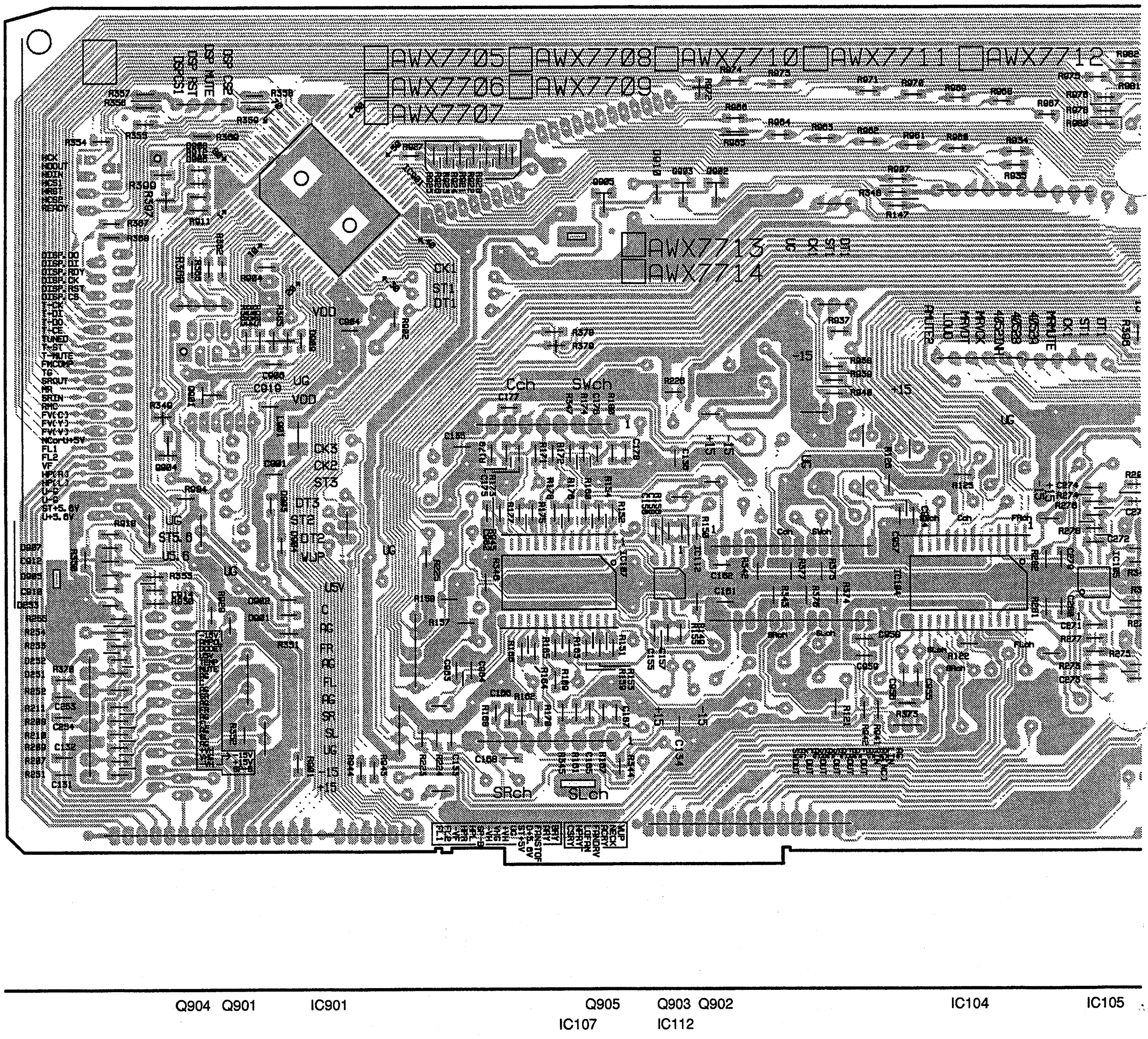
A

B

C

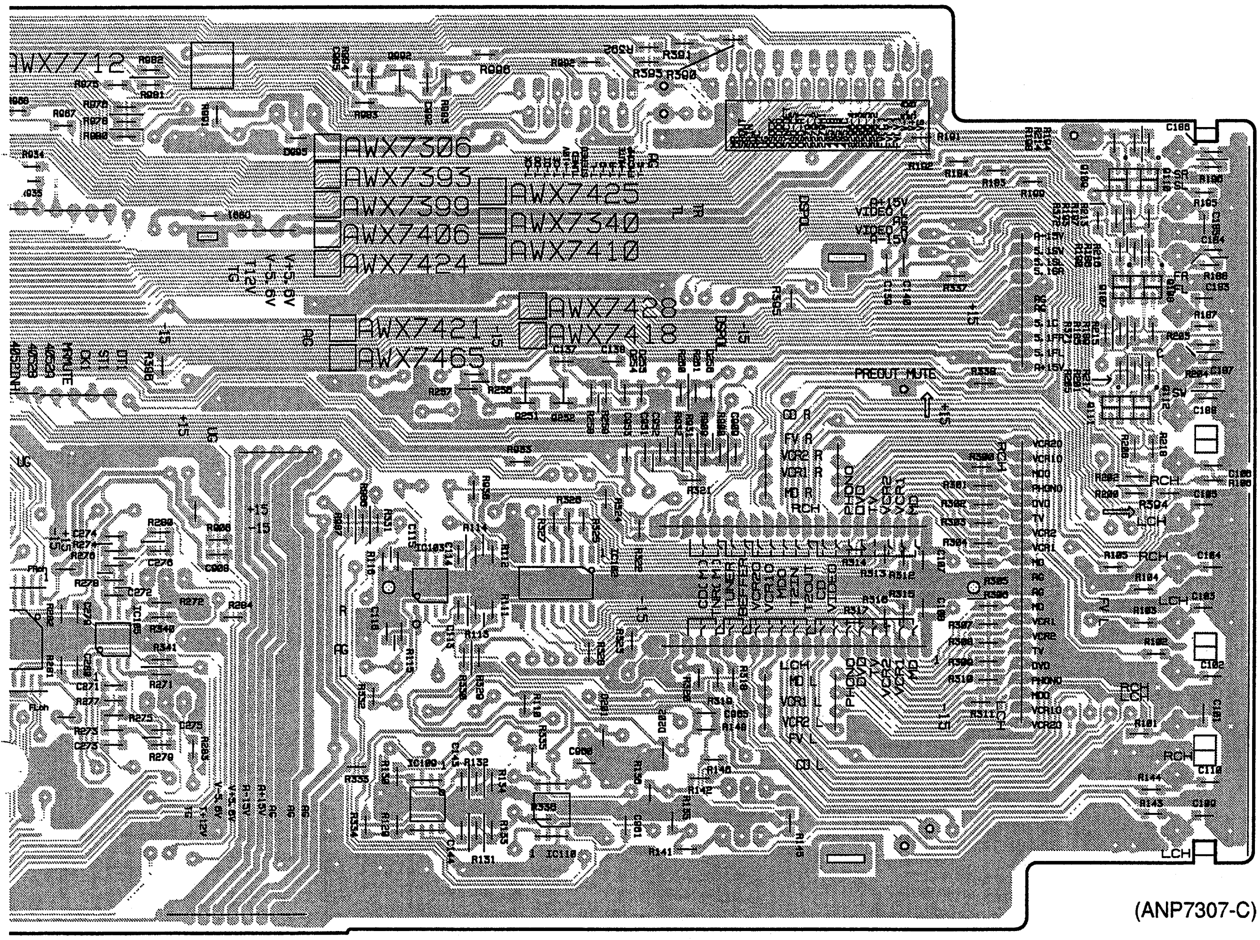
D

D MAIN CONTROL ASSY


AWX7705
AWX7708
AWX7710
AWX7711
AWX7712
AWX7706
AWX7709
AWX7707
AWX7713
AWX7714
Cch
SWch
SRch
SLch
Q904
Q901
IC901
Q905
IC107
Q903
Q902
IC112
IC104
IC105

SIDE B

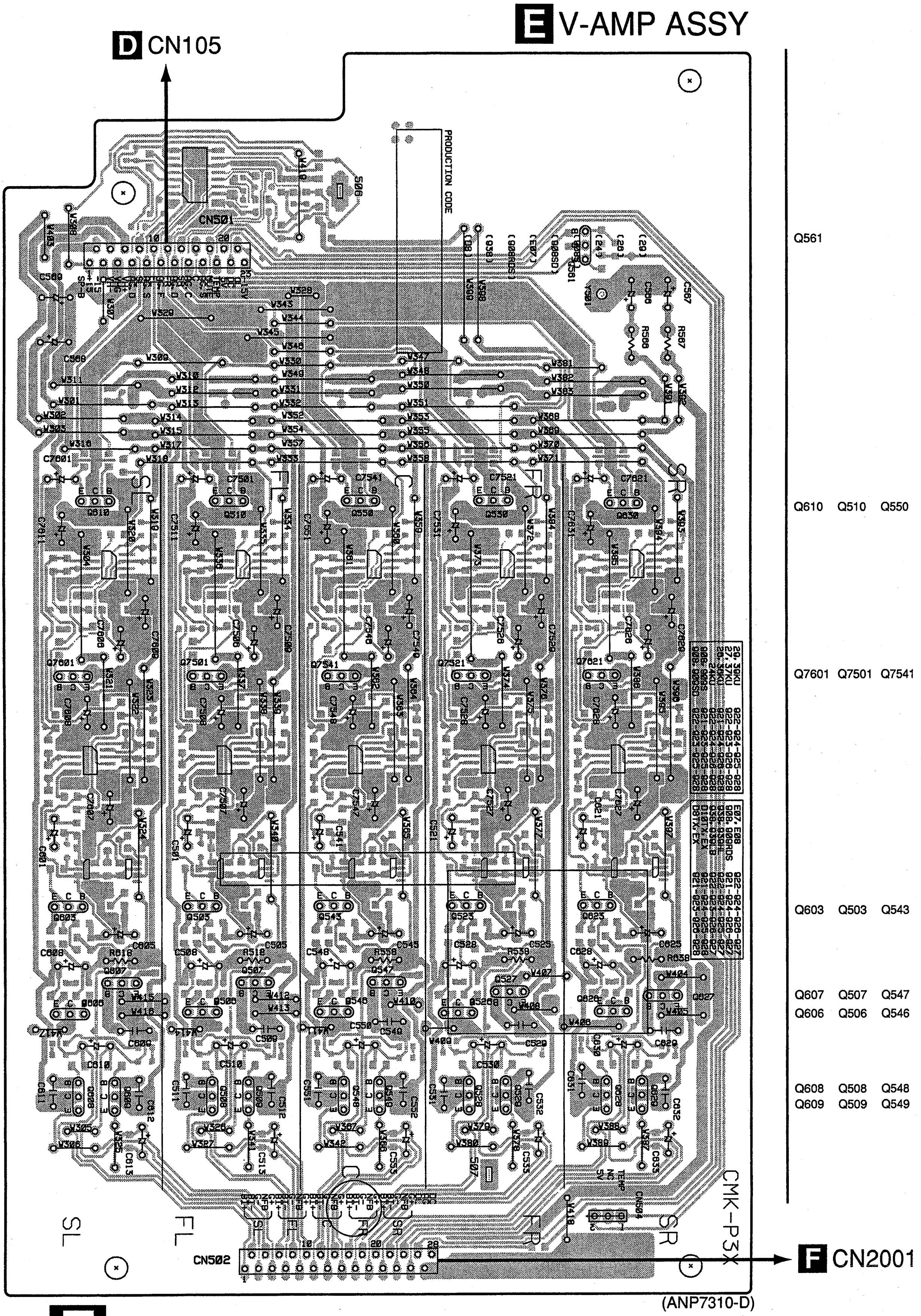
SIDE B


AWX7712
AWX7306
AWX7393
AWX7399
AWX7406
AWX7424
AWX7425
AWX7340
AWX7410
AWX7428
AWX7418
AWX7421
AWX7465
PREOUT MUTE
RCH
LCH
IC103
IC105
IC109
IC110
IC102

(ANP7307-C)

IC105	Q902 IC103 IC109	Q251 Q252 IC102 IC110	Q109 Q110 Q107 Q108 Q111 Q112

4.3 V-AMP ASSY


E V-AMP ASSY
D CN105
F CN2001
CN501
CN502
PRODUCTION CODE
S06
S07
SL
FL
C
FR
SR
CMK-P3X
CN504

(ANP7310-D)

Q561

Q610 Q510 Q550 Q530 Q630

Q7601 Q7501 Q7541 Q7521 Q7621

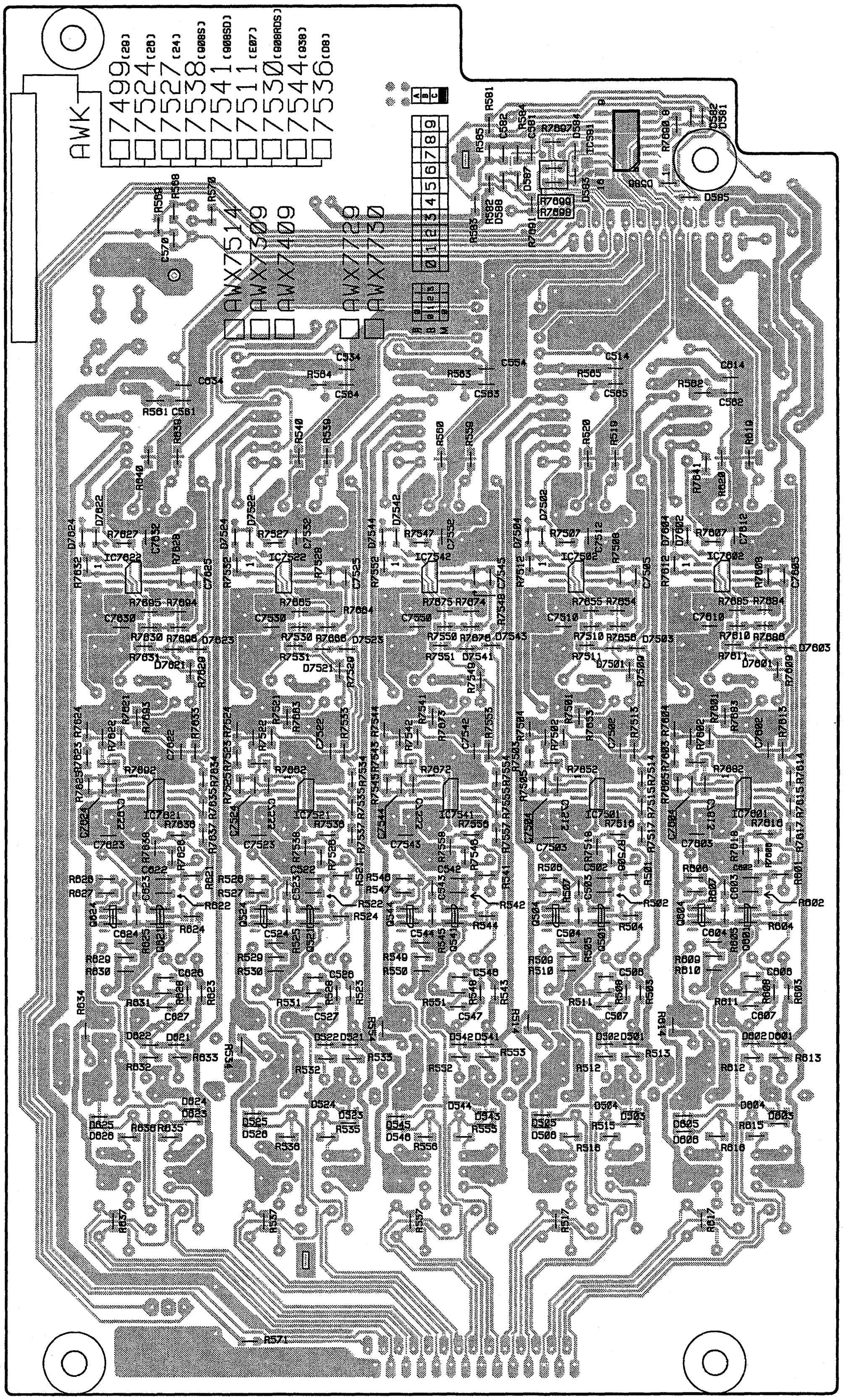
Q603 Q503 Q543 Q523 Q623

Q607 Q507 Q547 Q527 Q627
Q606 Q506 Q546 Q526 Q626

Q608 Q508 Q548 Q528 Q628
Q609 Q509 Q549 Q529 Q629

SIDE A

E V-AMP ASSY


AWK
7499 (29)
7524 (28)
7527 (24)
7538 (909S)
7541 (909SD)
7511 (E07)
7530 (909RDS)
7544 (939)
7536 (D8)
AWX7514
AWX7309
AWX7409
AWX7729
AWX7730
0 1 2 3 4 5 6 7 8 9
A B C
IC7622
IC7522
IC7542
IC7502
IC7602
IC7621
IC7521
IC7541
IC7501
IC7601
C570
R569
R568
R570
C534
R584
C584
C634
R561 C561
R583
C583
C554
C514
R505
C505
R502
C502
C614
R581
R585
R582
R583
R7897
IC581
R571

IC581

IC7622 IC7522 IC7542 IC7502 IC7602

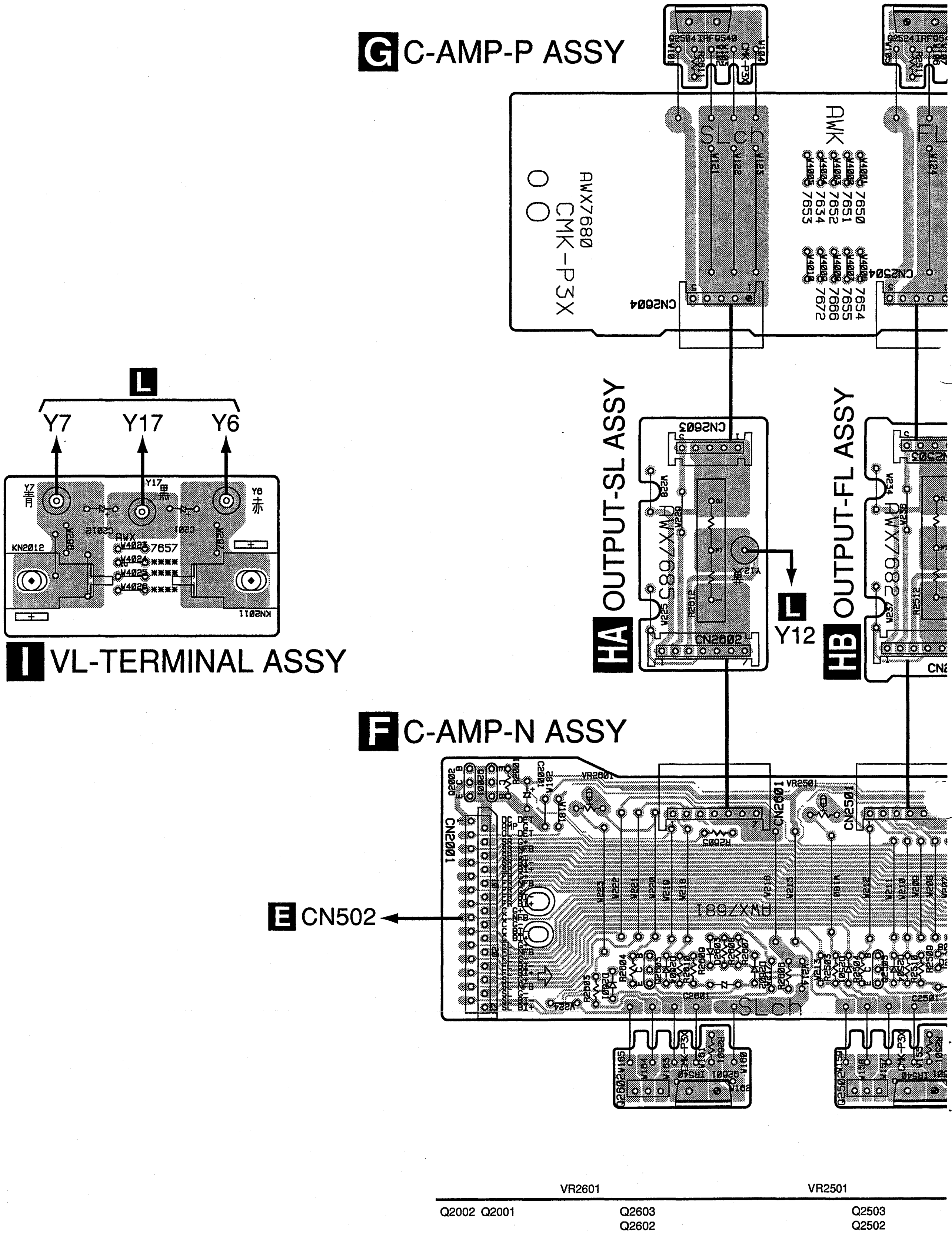
IC7621 IC7521 IC7541 IC7501 IC7601

Q624 Q524 Q544 Q504 Q604
Q621 Q521 Q541 Q501 Q601

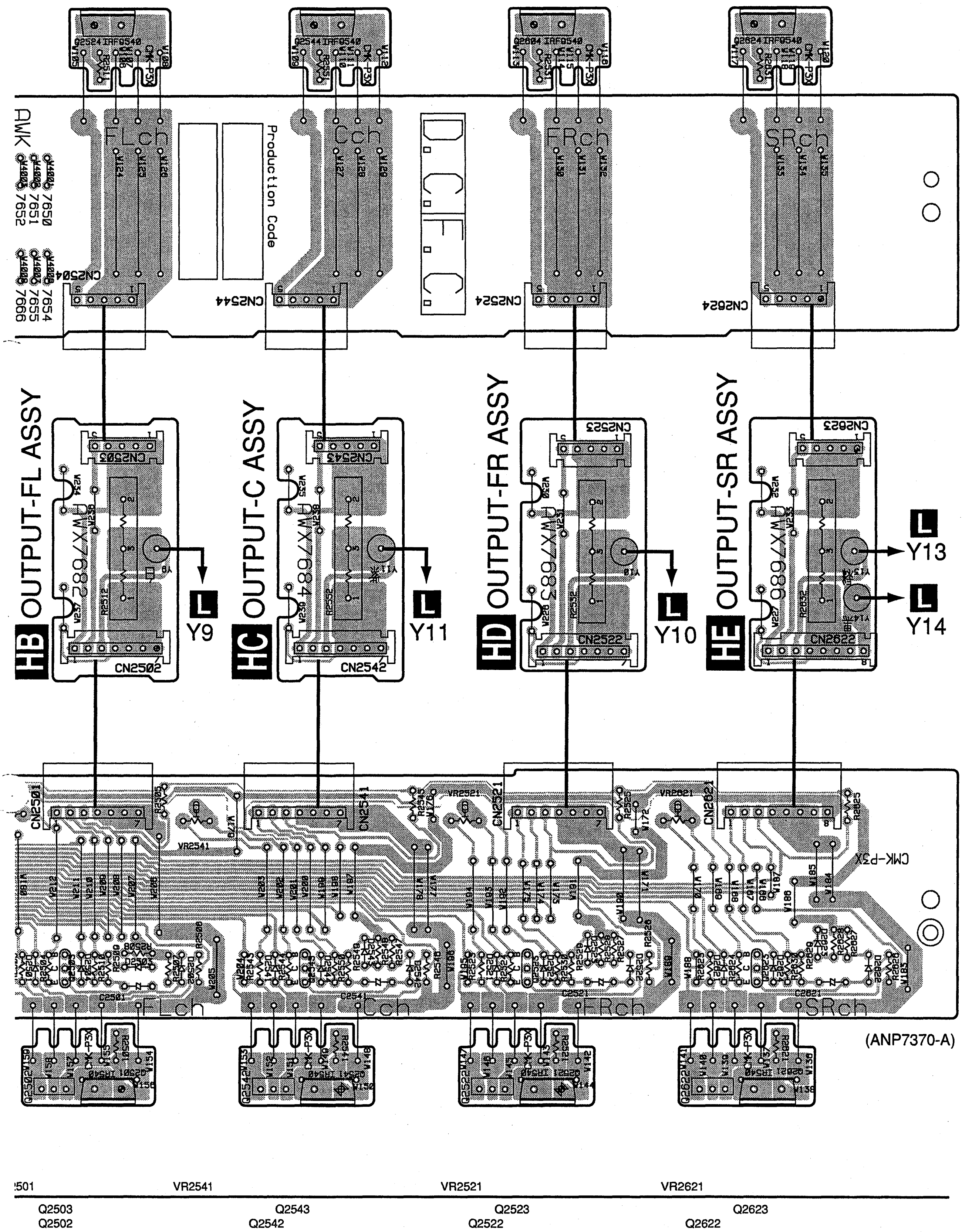
(ANP7310-F)

SIDE B

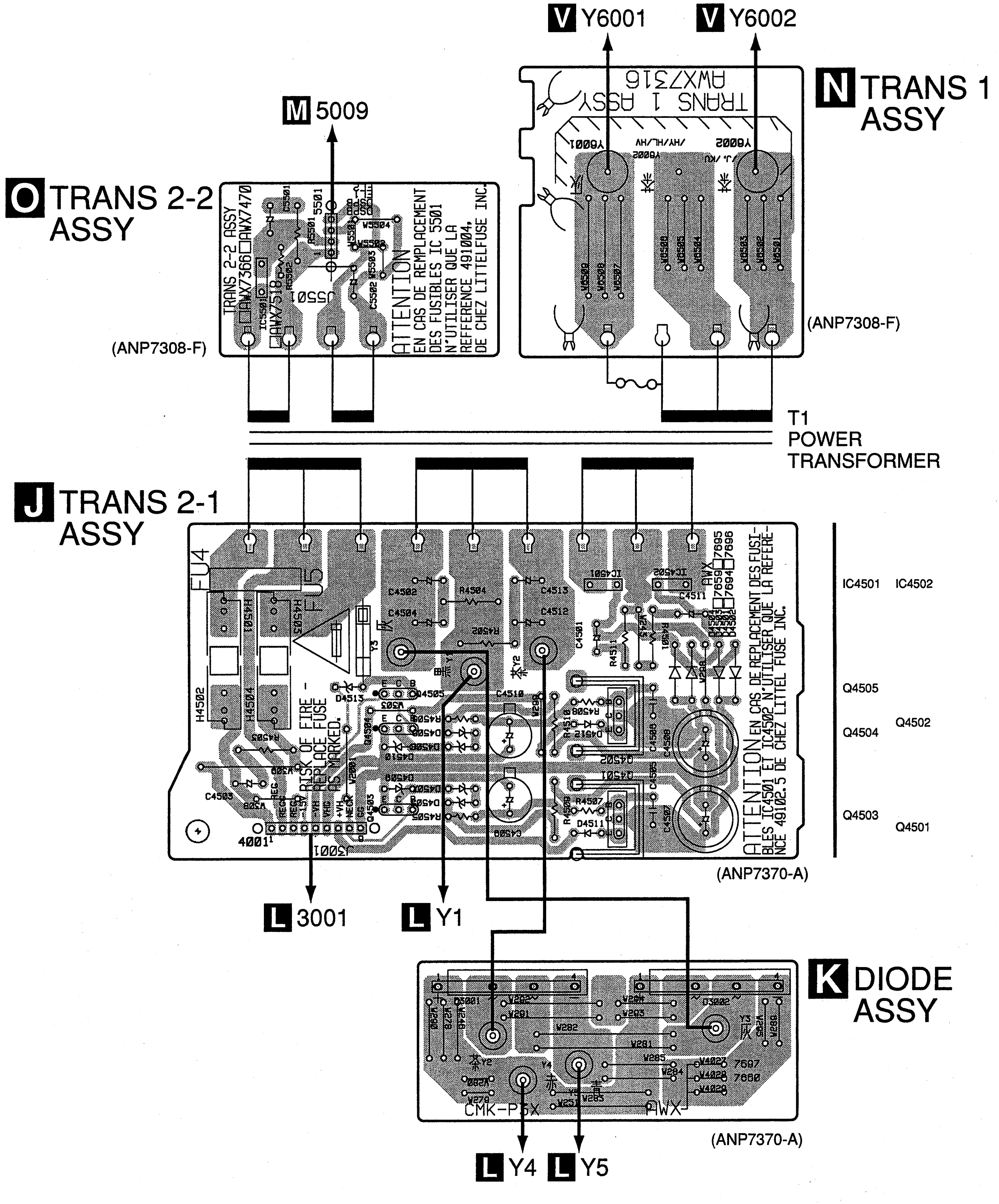
4.4 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS


G C-AMP-P ASSY
AWX7680
CMK-P3X
AWK
CN2604
CN2504
Q2504 IRF9540
Q2524 IRF954
SLch
L
Y7
Y17
Y6
KN2012
KN2011
AWX 7657
W4023
W4024
W4025
W4026
I VL-TERMINAL ASSY
HA OUTPUT-SL ASSY
HB OUTPUT-FL ASSY
CN2603
CN2602
CN2503
AWX7683
L
Y12
F C-AMP-N ASSY
CN2001
CN2601
CN2501
VR2601
VR2501
AWX7681
Q2002
C2601
C2501
E CN502
Q2602
Q2502
VR2601
VR2501
Q2002 Q2001
Q2603
Q2602
Q2503
Q2502

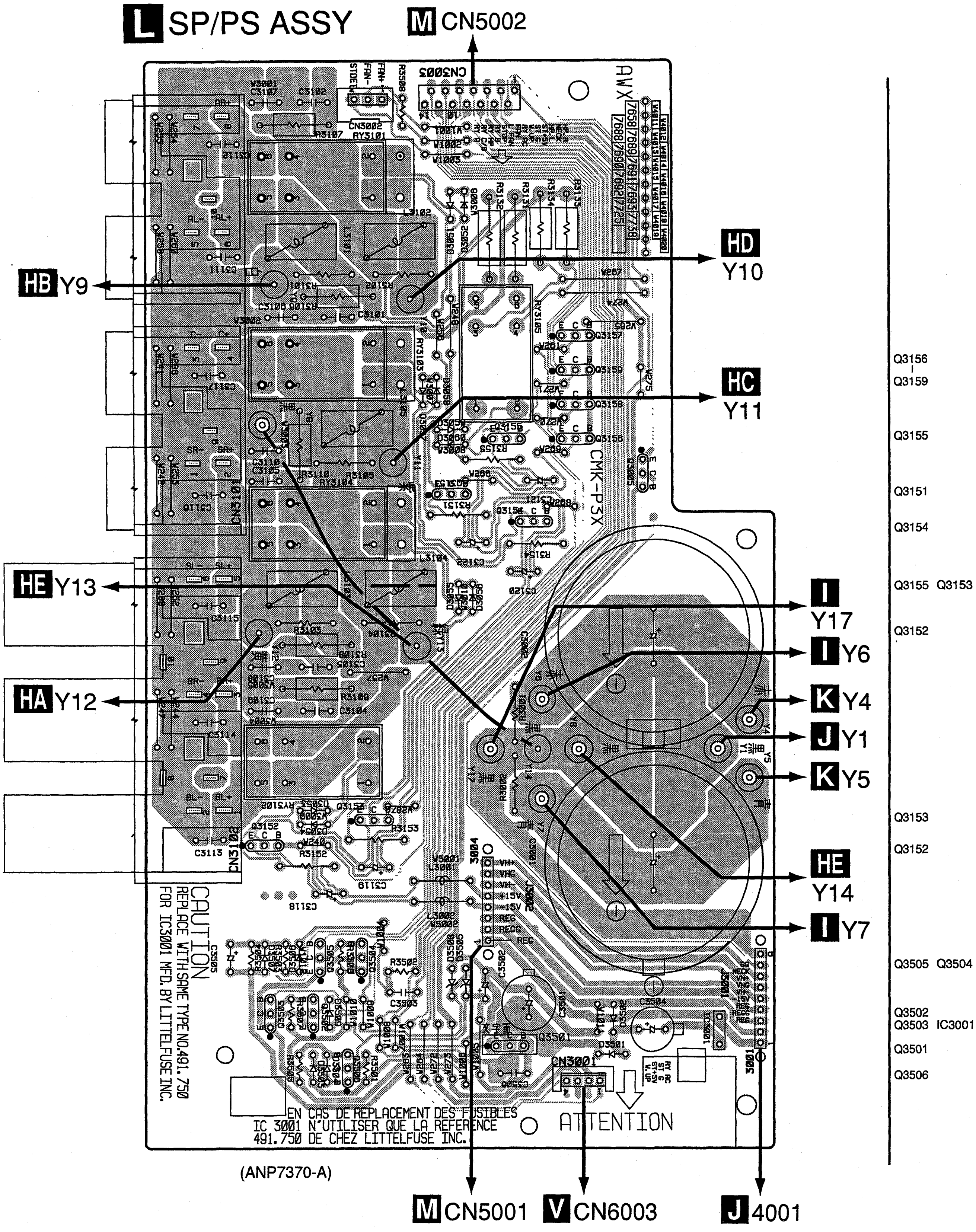
SIDE A


HB OUTPUT-FL ASSY
HC OUTPUT-C ASSY
HD OUTPUT-FR ASSY
HE OUTPUT-SR ASSY
L Y9
L Y11
L Y10
L Y13
L Y14
Q2524 IRF9540
Q2544 IRF9540
Q2604 IRF9540
Q2624 IRF9540
FLch
Cch
FRch
SRch
Production Code
D.C.F.C.
AWK 7650 7651 7652 7654 7655 7666
CN2504
CN2544
CN2524
CN2624
CN2503
CN2543
CN2523
CN2623
CN2502
CN2542
CN2522
CN2622
CN2501
CN2541
CN2521
CN2621
VR2541
VR2521
VR2621
CMK-P3X
C2501
C2541
C2521
C2621
(ANP7370-A)
Q2502
Q2542
Q2522
Q2622
2501
VR2541
VR2521
VR2621
Q2503
Q2502
Q2543
Q2542
Q2523
Q2522
Q2623
Q2622

4.5 TRANS 2-1, DIODE, TRANS 1 and TRANS 2-2 ASSYS


V Y6001
V Y6002
N TRANS 1 ASSY
M 5009
O TRANS 2-2 ASSY
(ANP7308-F)
(ANP7308-F)
TRANS 1 ASSY AWX7316
ATTENTION EN CAS DE REMPLACEMENT DES FUSIBLES IC 5501 N'UTILISER QUE LA REFFERENCE 491004. DE CHEZ LITTELFUSE INC.
T1 POWER TRANSFORMER
J TRANS 2-1 ASSY
RISK OF FIRE - REPLACE FUSE AS MARKED.
ATTENTION EN CAS DE REPLACEMENT DES FUSIBLES IC4501 ET IC4502 N'UTILISER QUE LA REFERENCE 49102.5 DE CHEZ LITTEL FUSE INC.
IC4501 IC4502
Q4505
Q4504 Q4502
Q4503 Q4501
(ANP7370-A)
L 3001
L Y1
K DIODE ASSY
CMK-P5X
AWX-
(ANP7370-A)
L Y4
L Y5

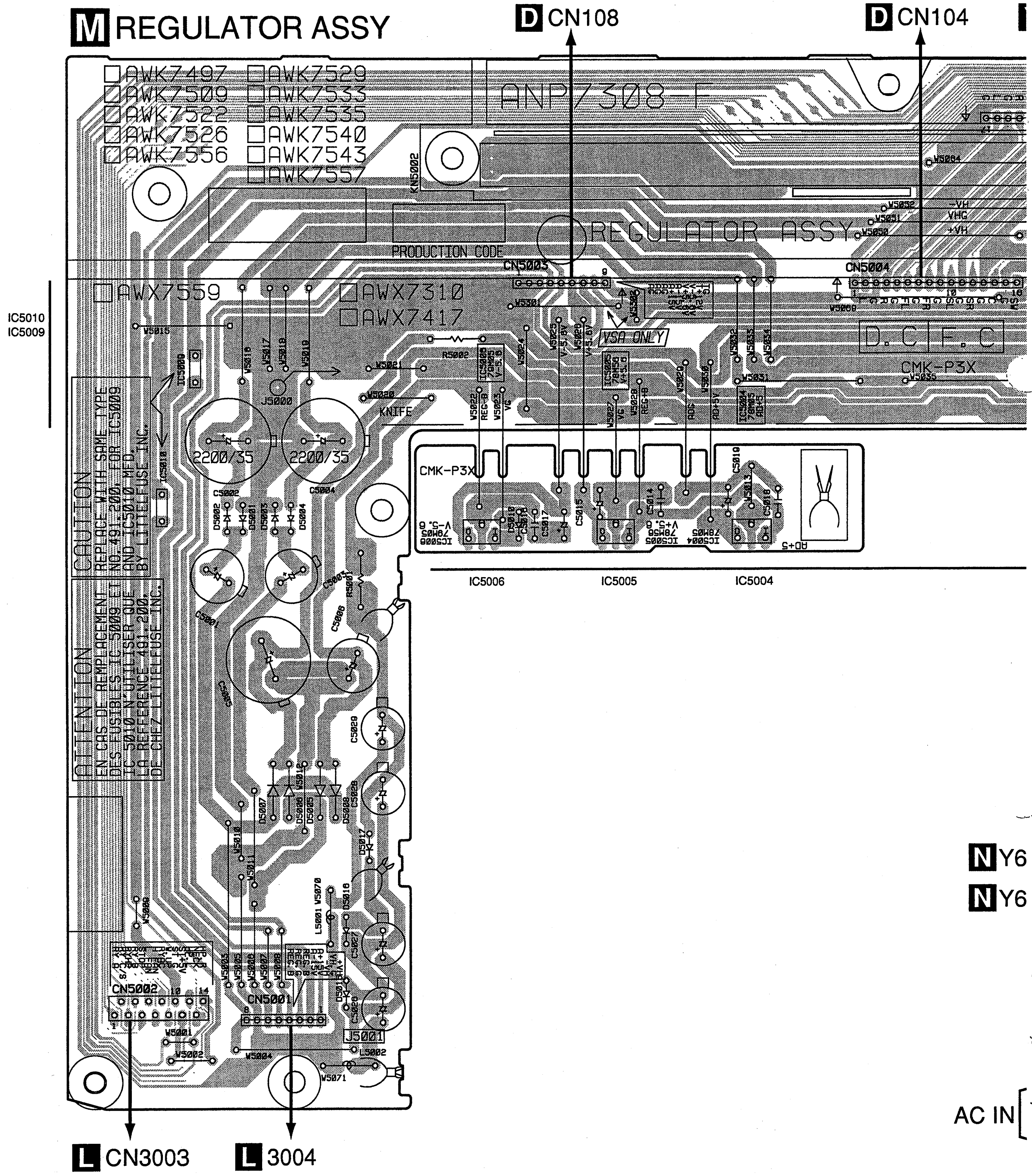
4.6 SP/PS ASSY

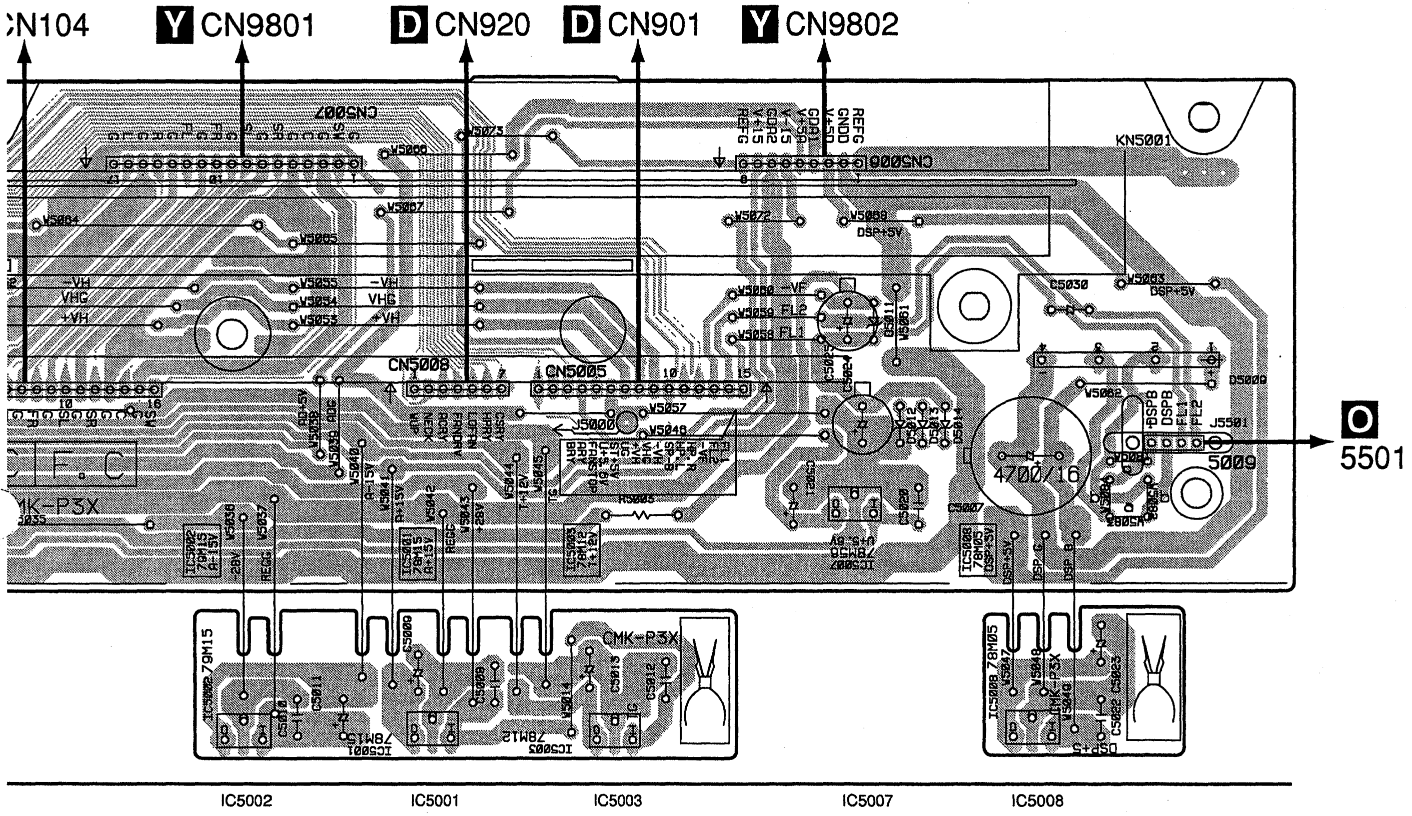

L SP/PS ASSY
M CN5002
HB Y9
HD Y10
HC Y11
HE Y13
HA Y12
I Y17
I Y6
K Y4
J Y1
K Y5
HE Y14
I Y7
M CN5001
V CN6003
J 4001
CN3003
CN3002
CN3101
CN3102
CN3001
AWX
CMK-P3X
CAUTION
REPLACE WITH SAME TYPE NO.491.750
FOR IC3001 MFD. BY LITTELFUSE INC.
EN CAS DE REPLACEMENT DES FUSIBLES
IC 3001 N'UTILISER QUE LA REFERENCE
491.750 DE CHEZ LITTELFUSE INC.
ATTENTION
Q3156
Q3159
Q3155
Q3151
Q3154
Q3155 Q3153
Q3152
Q3153
Q3152
Q3505 Q3504
Q3502
Q3503 IC3001
Q3501
Q3506

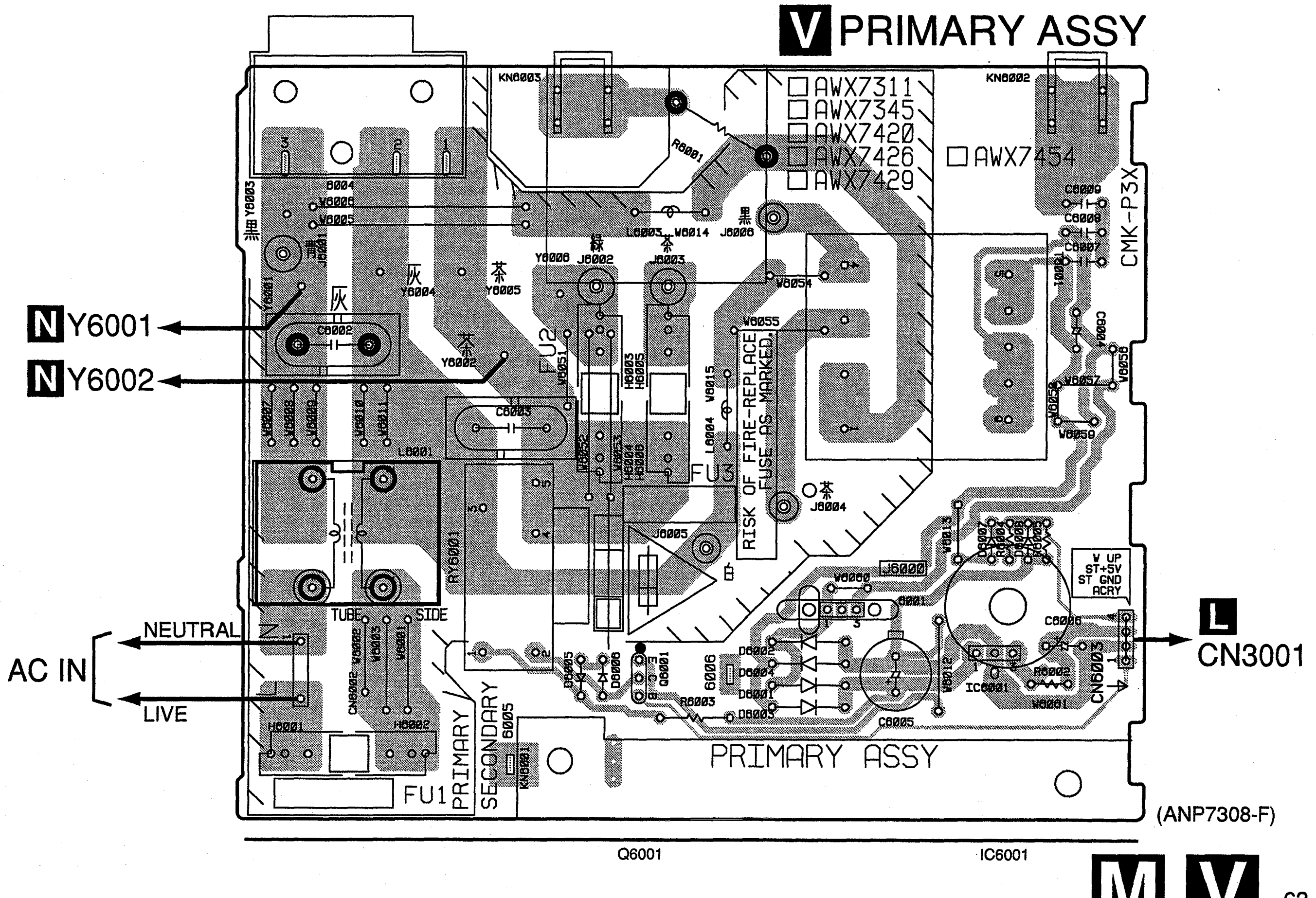
(ANP7370-A)

4.7 REGULATOR and PRIMARY ASSYS

M REGULATOR ASSY


A
B
C
D
D CN108
D CN104
AWK7497
AWK7509
AWK7522
AWK7526
AWK7556
AWK7529
AWK7533
AWK7535
AWK7540
AWK7543
AWK7557
ANP7308-F
KN5002
PRODUCTION CODE
REGULATOR ASSY
AWX7559
AWX7310
AWX7417
IC5010
IC5009
CN5003
CN5004
VSA ONLY
D.C F.C
CMK-P3X
-VH
VHG
+VH
KNIFE
J5000
R5002
2200/35
2200/35
CAUTION
REPLACE WITH SAME TYPE
NO. 491.200, FOR IC5009
AND IC5010 M.D.
BY LITTELFUSE INC.
ATTENTION
EN CAS DE REMPLACEMENT
DES FUSIBLES IC 5009 ET
IC 5010 N'UTILISER QUE
LA REFERENCE 491.200.
DE CHEZ LITTELFUSE INC.
C5001
C5002
C5003
C5004
C5005
C5006
C5020
C5028
D5001
D5002
D5003
D5004
D5005
D5006
D5007
D5008
D5017
L5001
W5070
CN5002
CN5001
J5001
L5002
W5071
W5001
W5002
W5004
IC5006
IC5005
IC5004
CMK-P3X
V-5.6
V+5.6
AD+5
N Y6
N Y6
AC IN
L CN3003
L 3004

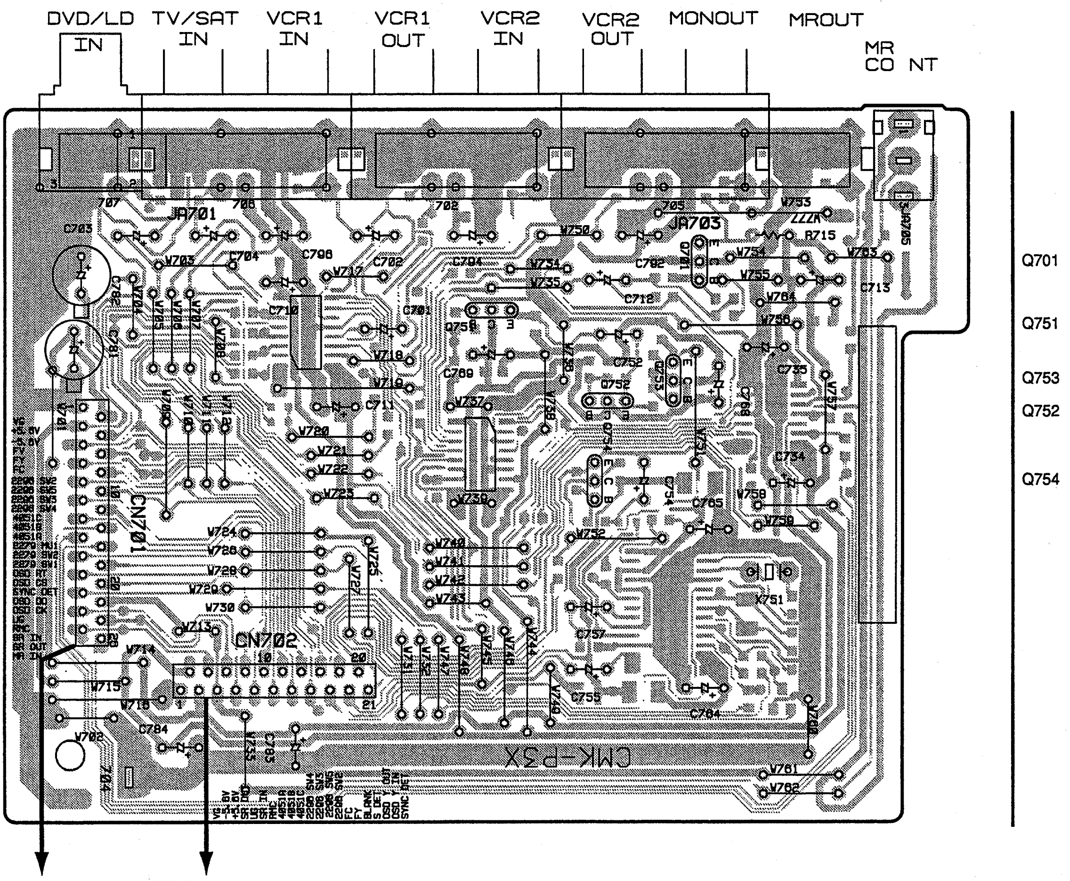

CN104
Y CN9801
D CN920
D CN901
Y CN9802
O 5501
CN5007
CN5006
KN5001
CN5008
CN5005
J5000
J5501
5009
4700/16
CMK-P3X
IC5002 79M15
IC5001 78M15
IC5003 78M12
IC5007 78M58
IC5008 78M05
-VH
VHG
+VH
DSP+5V
DSP+5
IC5002
IC5001
IC5003
IC5007
IC5008


V PRIMARY ASSY
☐ AWX7311
☐ AWX7345
☐ AWX7420
☐ AWX7426
☐ AWX7429
☐ AWX7454
KN6003
KN6002
CMK-P3X
N Y6001
N Y6002
AC IN
NEUTRAL
LIVE
TUBE
SIDE
RY6001
FU1
FU2
FU3
RISK OF FIRE-REPLACE FUSE AS MARKED.
PRIMARY
SECONDARY
PRIMARY ASSY
C6002
C6003
L6001
R6001
J6000
J6004
J6005
Q6001
IC6001
CN6003
W UP
ST+5V
ST GND
ACRY
L CN3001
(ANP7308-F)
Q6001
IC6001

4.8 VIDEO ASSY

P VIDEO ASSY

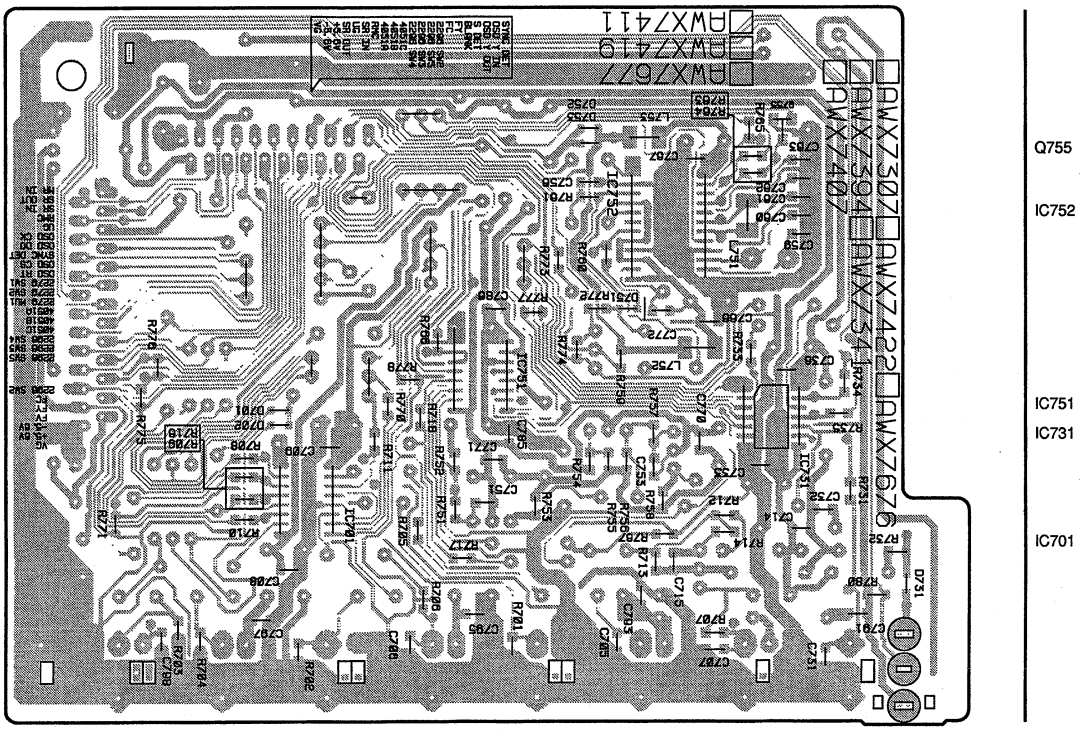
SIDE A


DVD/LD IN
TV/SAT IN
VCR1 IN
VCR1 OUT
VCR2 IN
VCR2 OUT
MONOUT
MROUT
MR CO NT
JA701
JA703
CN701
CN702
CMK-P3X
Q701
Q751
Q753
Q752
Q754

D CN905 **Q** CN804

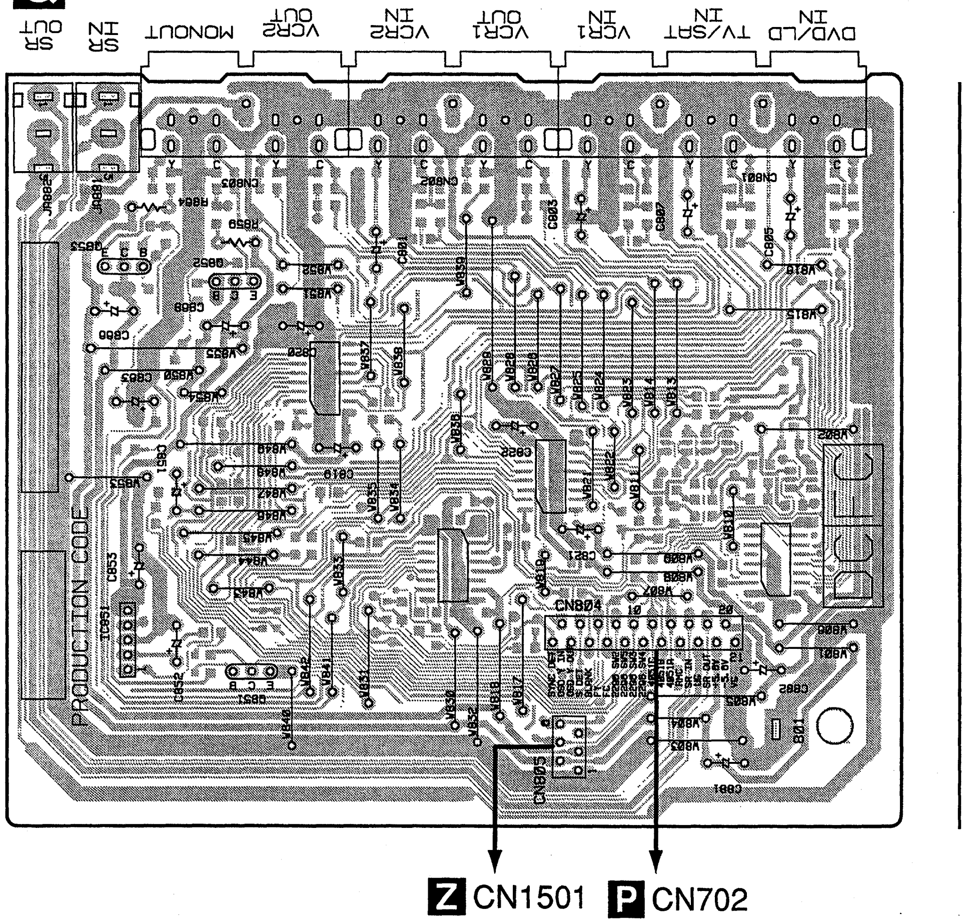
P VIDEO ASSY

SIDE B


AWX7411
AWX7419
AWX7677
AWX7307
AWX7394
AWX7407
AWX7422
AWX7341
AWX7676
IC752
IC751
IC731
IC701
Q755
IC752
IC751
IC731
IC701

4.9 S-VIDEO ASSY

Q S-VIDEO ASSY

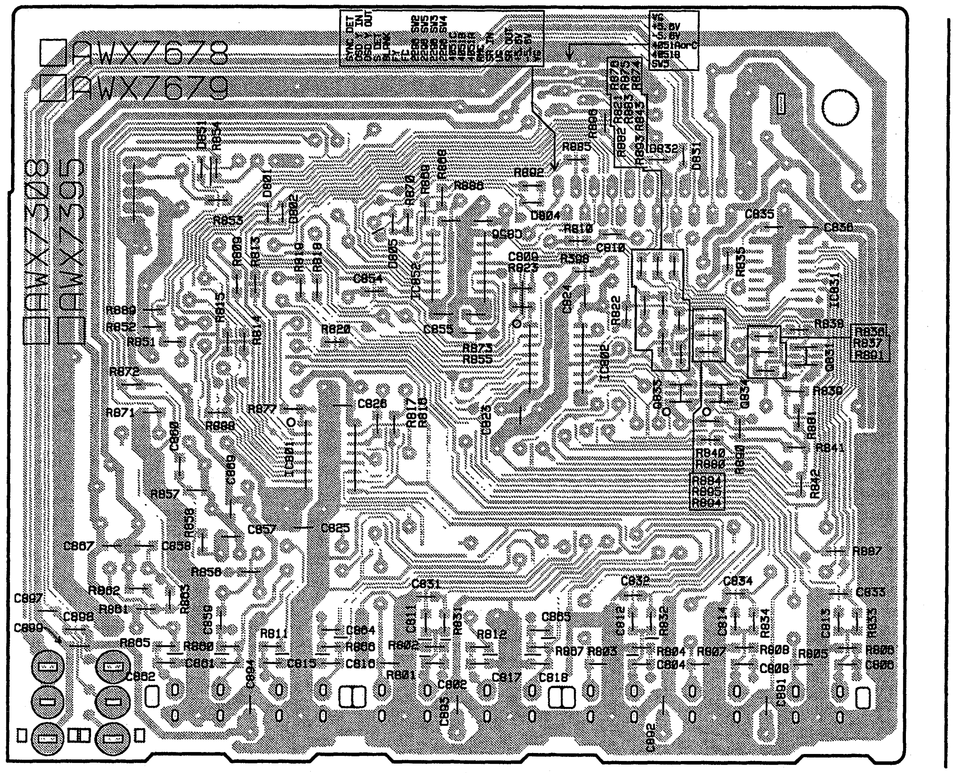

SR OUT
SR IN
MONOUT
VCR2 OUT
VCR2 IN
VCR1 OUT
VCR1 IN
TV/SAT IN
DVD/LD IN
CN804
CN805
PRODUCTION CODE
Z CN1501
P CN702

Q853 Q852

IC851 Q851

SIDE A

Q S-VIDEO ASSY


AWX7678
AWX7679
AWX7308
AWX7395

IC852 IC831

IC802 Q831

Q833 Q834

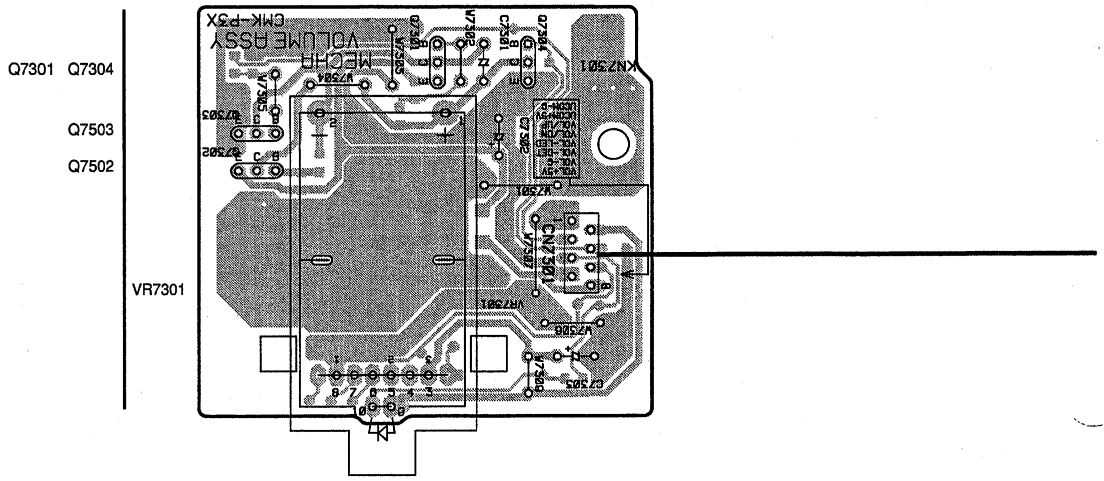
IC801

SIDE B

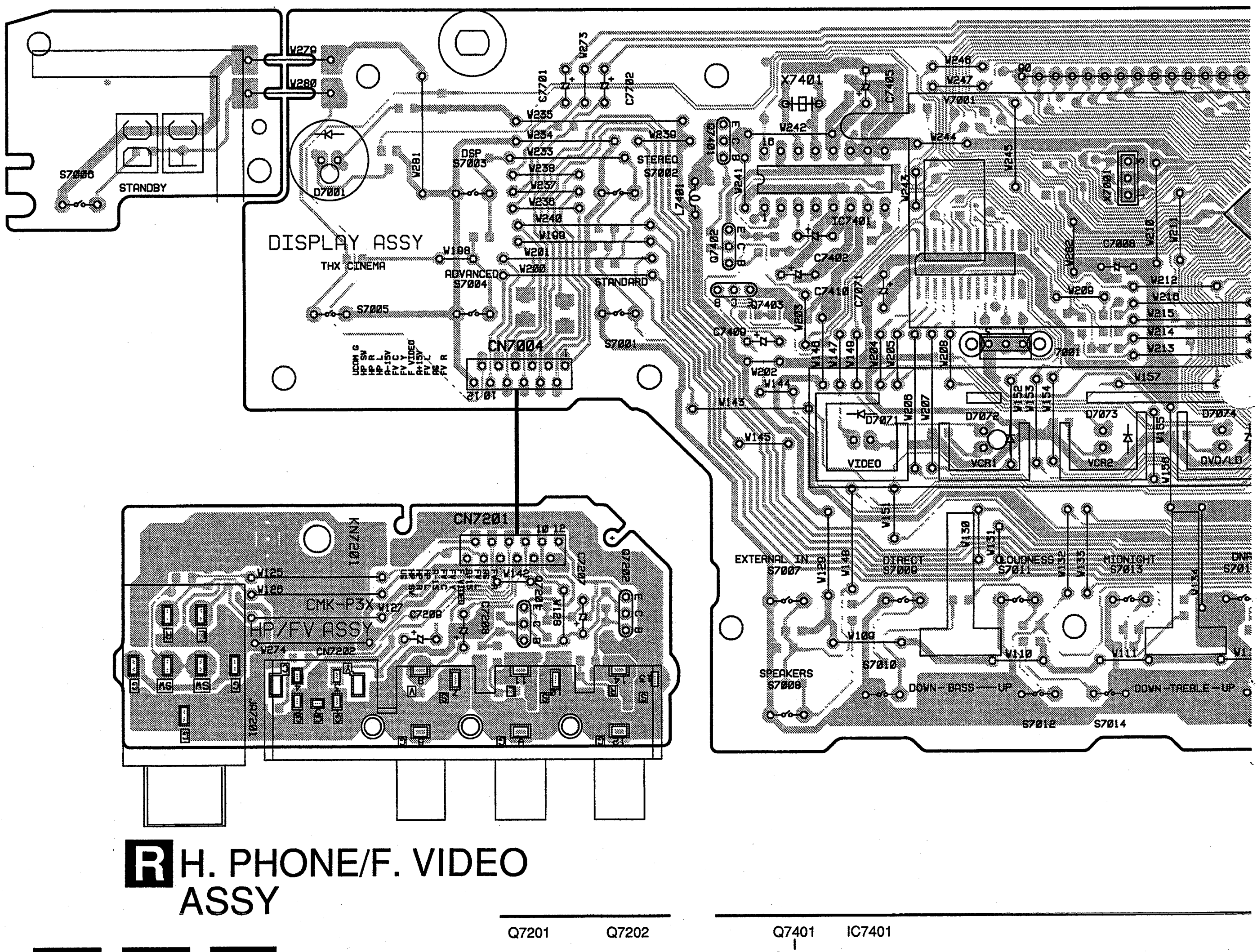
(ANP7307-C)

4.10 H. PHONE/F. VIDEO, DISPLAY, ROTARY ENCODER and VOLUME ASSYS

U VOLUME ASSY

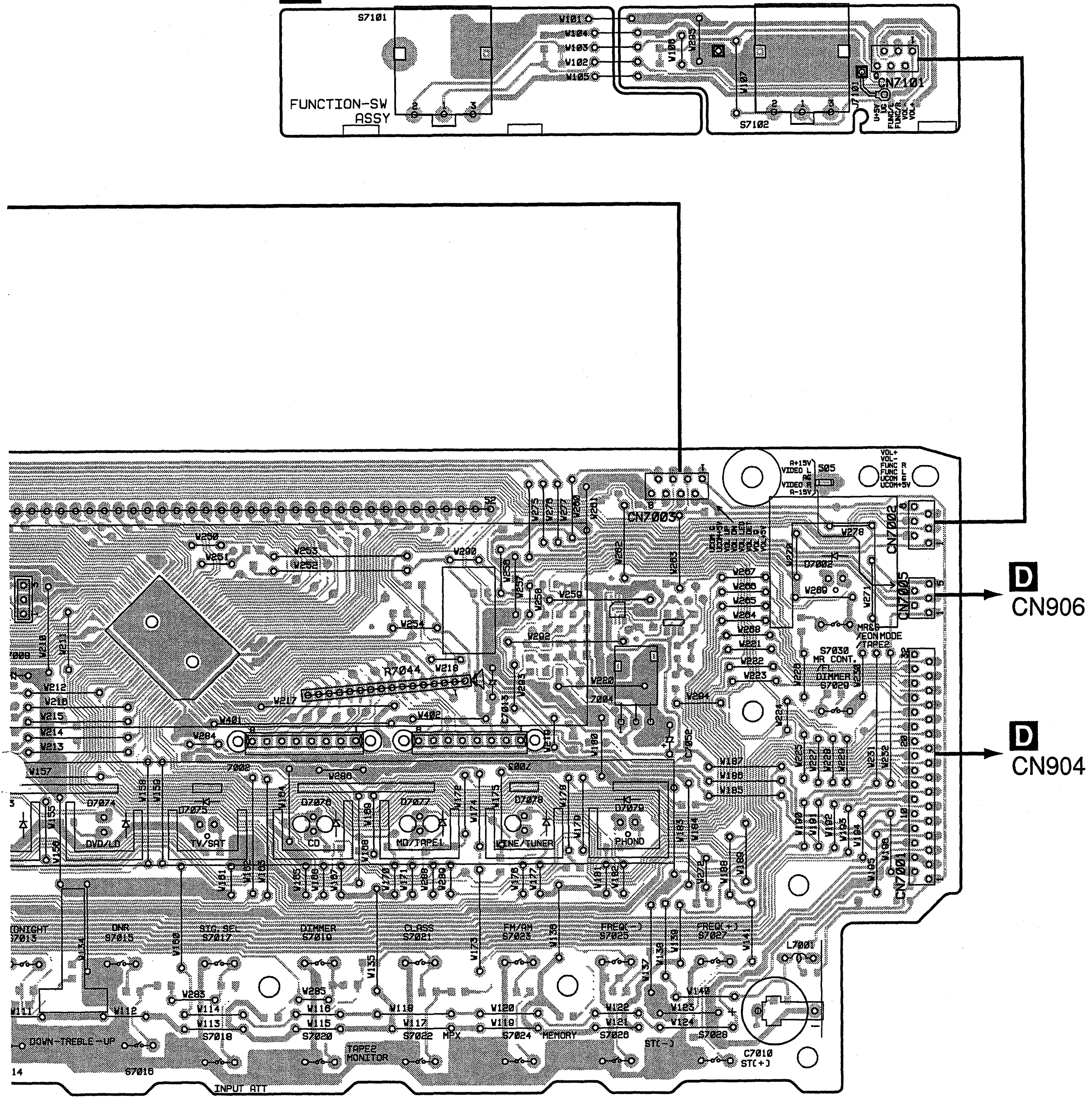

Q7301 Q7304
Q7503
Q7502
VR7301
CMK-P3X
VOLUME ASSY
MECHA
KN7301
CN7301
VR7301
W7301
W7302
W7303
W7304
W7305
W7306
W7308
C7301
C7302
C7303
Q7301
Q7304
Q7302
Q7303

S DISPLAY ASSY


S7006
STANDBY
W279
W280
D7001
W281
W273
C7701
C7702
DSP S7003
STEREO S7002
DISPLAY ASSY
THX CINEMA
ADVANCED S7004
STANDARD
S7005
S7001
CN7004
X7401
C7405
W246
W247
V7001
W242
W244
IC7401
Q7401
Q7402
Q7403
C7402
C7410
C7400
D7071
VIDEO
D7072
VCR1
D7073
VCR2
D7074
DVD/LD
EXTERNAL IN S7007
DIRECT S7009
LOUDNESS S7011
MIDNIGHT S7013
SPEAKERS S7008
S7010
DOWN - BASS - UP
DOWN - TREBLE - UP
S7012
S7014
CN7201
KN7201
CMK-P3X
HP/FV ASSY
CN7202
Q7201
Q7202
C7207
C7208
C7209
W125
W126
W127
W142
W274
J7201
Q7201 Q7202
Q7401 IC7401
Q7403

R H. PHONE/F. VIDEO ASSY

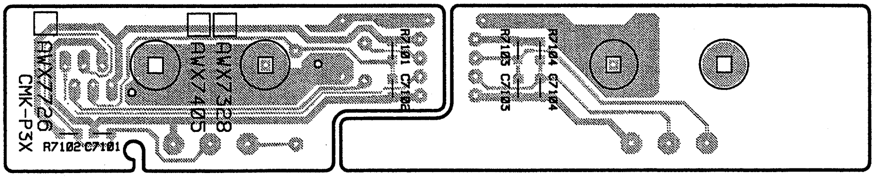
T ROTARY ENCODER ASSY


S7101
FUNCTION-SW ASSY
W101
W104
W103
W102
W105
S7102
CN7101
CN7003
CN7002
CN7005
D
CN906
D
CN904
R7044
D7074
DVD/LD
D7075
TV/SAT
D7076
CD
D7077
MD/TAPE1
D7078
LINE/TUNER
D7079
PHONO
CN7001
S7030
MR CONT.
DIMMER
S7029
MR ON
/EON MODE
TAPE2
DNR
S7015
STG.SEL
S7017
DIMMER
S7019
CLASS
S7021
FM/AM
S7023
FREQ(-)
S7025
FREQ(+)
S7027
L7001
DOWN-TREBLE-UP
S7016
S7018
S7020
TAPE2
MONITOR
S7022
MPX
S7024
MEMORY
S7026
ST(-)
S7028
C7010
ST(+)
INPUT ATT

(ANP7310-D)

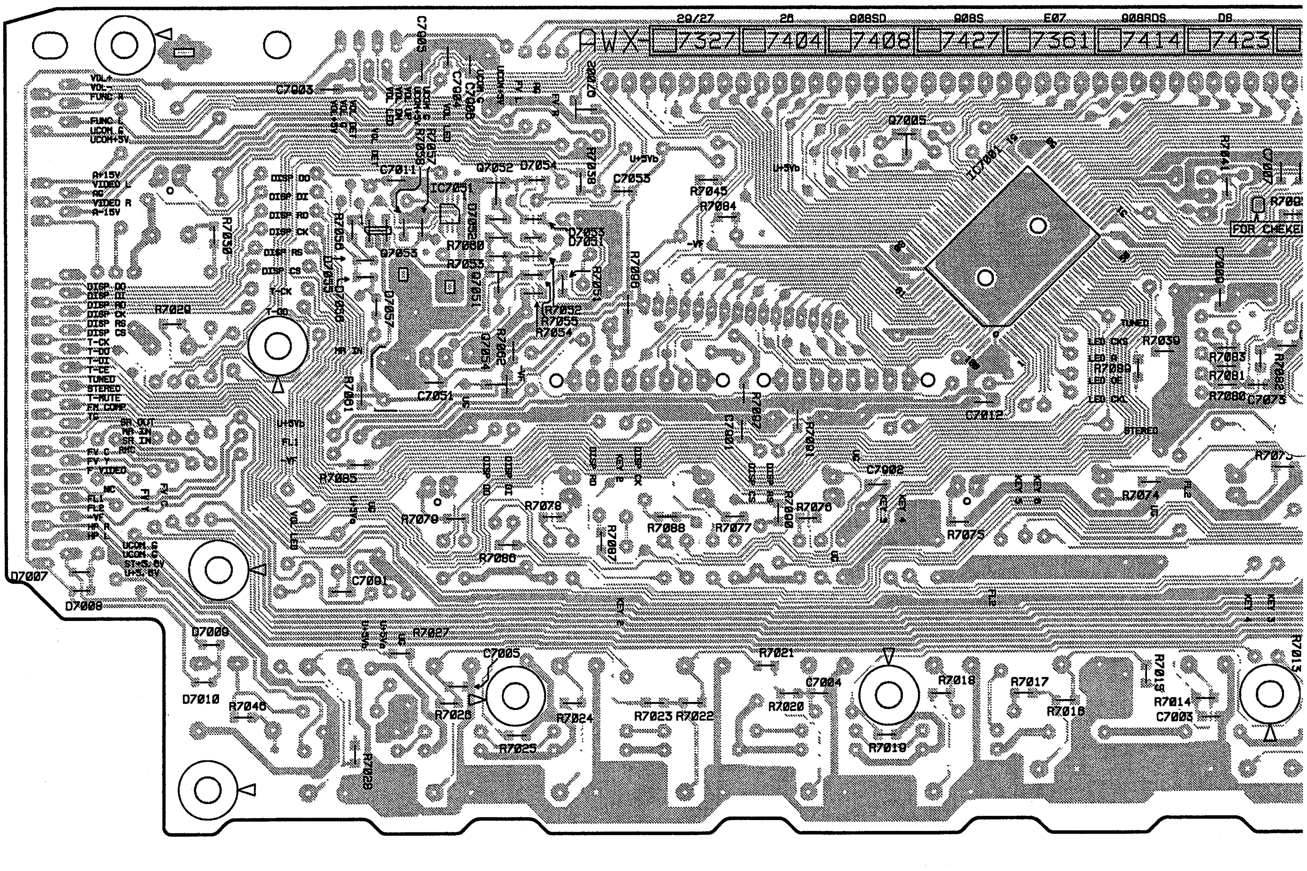
A

T ROTARY ENCODER ASSY


AWX7726
CMK-P3X
AWX7328
AWX7405
R7101 C7102
R7102 C7101
R7103 C7103
R7104 C7104

B

S DISPLAY ASSY

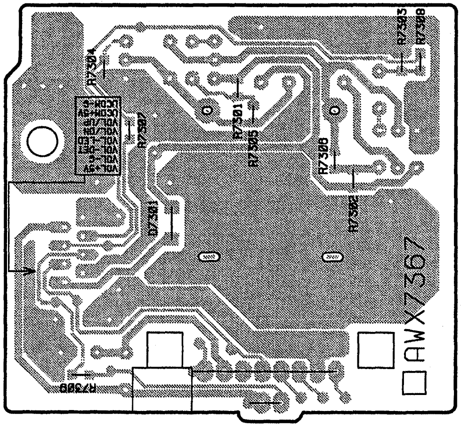

AWX-
29/27 7327
28 7404
908SD 7408
908S 7427
E07 7361
908RDS 7414
D8 7423
IC7001
IC7051
Q7005
Q7052
Q7053
C7003
C7011
C7051
C7055
C7012
C7002
C7001
C7005
C7004
C7003
R7029
R7030
R7045
R7084
R7085
R7070
R7078
R7088
R7077
R7076
R7075
R7074
R7027
R7021
R7018
R7017
R7016
R7014
R7013
R7019
R7020
R7022
R7023
R7024
R7025
R7026
R7028
R7046
D7007
D7008
D7009
D7010
FOR CHEKER

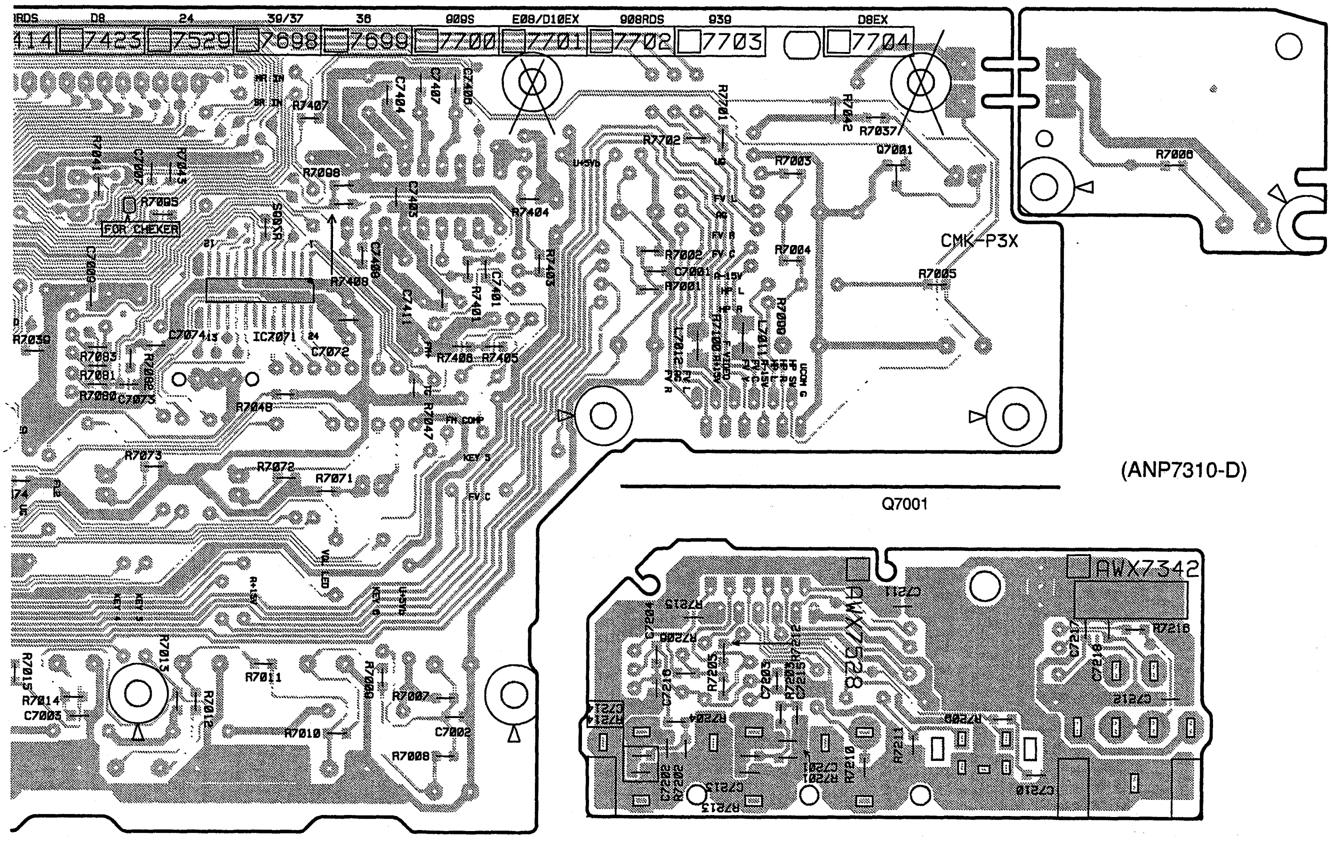
C

D

Q7053 Q7052 Q7002 Q7005 IC7001
IC7051
Q7051 Q7054

U VOLUME ASSY


AWX7367
R7301
R7302
R7303
R7304
R7305
R7306
R7307
R7308
R7309
D7301


7423
7529
7698
7699
7700
7701
7702
7703
7704
D8
24
39/37
38
909S
E08/D10EX
908RDS
939
D8EX
IC7071
FOR CHEKER
CMK-P3X
Q7001
R7000
AWX7342
AWX7328

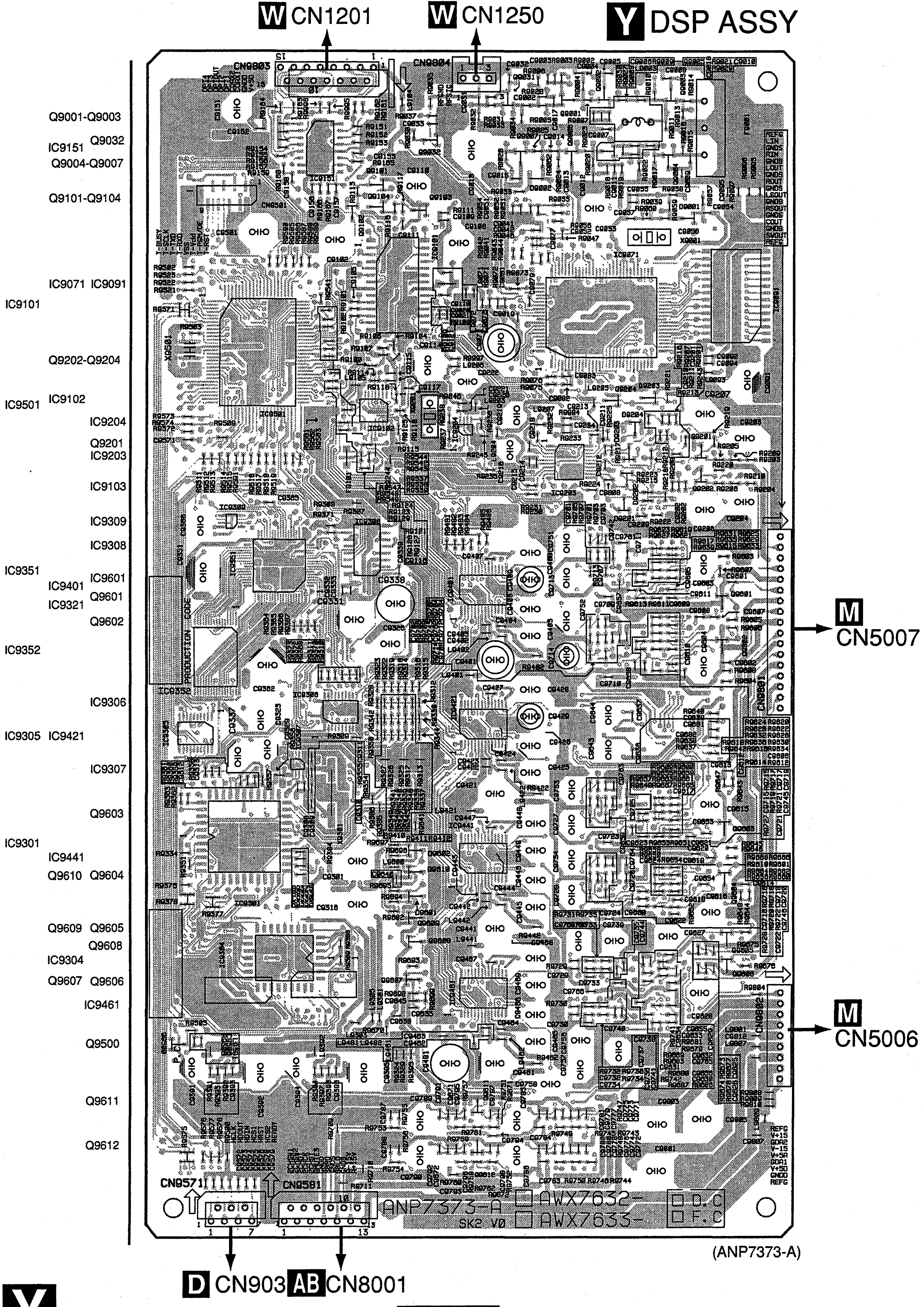
(ANP7310-D)

Q7001

IC7071

R H. PHONE/F. VIDEO ASSY

4.11 DSP ASSY


W CN1201
W CN1250
Y DSP ASSY
CN9803
CN9804
A
B
C
D
Q9001-Q9003
Q9032
IC9151
Q9004-Q9007
Q9101-Q9104
IC9071 IC9091
IC9101
Q9202-Q9204
IC9501
IC9102
IC9204
Q9201
IC9203
IC9103
IC9309
IC9308
IC9351
IC9601
IC9401
Q9601
IC9321
Q9602
IC9352
IC9306
IC9305 IC9421
IC9307
Q9603
IC9301
IC9441
Q9610 Q9604
Q9609 Q9605
Q9608
IC9304
Q9607 Q9606
IC9461
Q9500
Q9611
Q9612
PRODUCTION CODE
CN9801
CN9802
M CN5007
M CN5006
CN9571
CN9581
ANP7373-A
SK2 V0
AWX7632-
AWX7633-
D.C
F.C
1 7
1 13
D CN903
AB CN8001

(ANP7373-A)

Y DSP ASSY

IC9041

IC9201

Q9205

IC9202

IC9701

IC9602

IC9702

IC9601

IC9703

IC9603

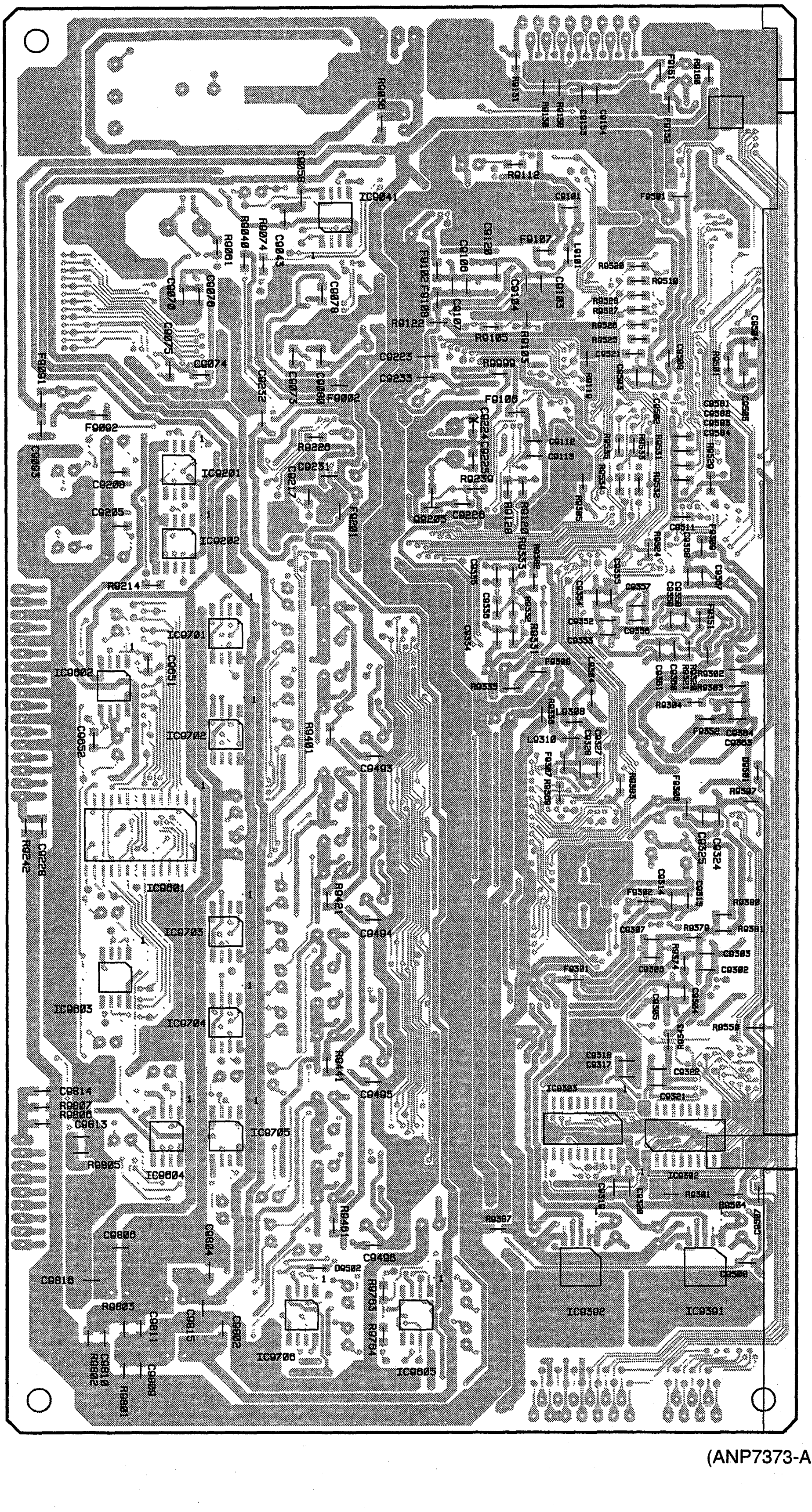
IC9704

IC9604 IC9705

IC9303 IC9302

IC9392 IC9391

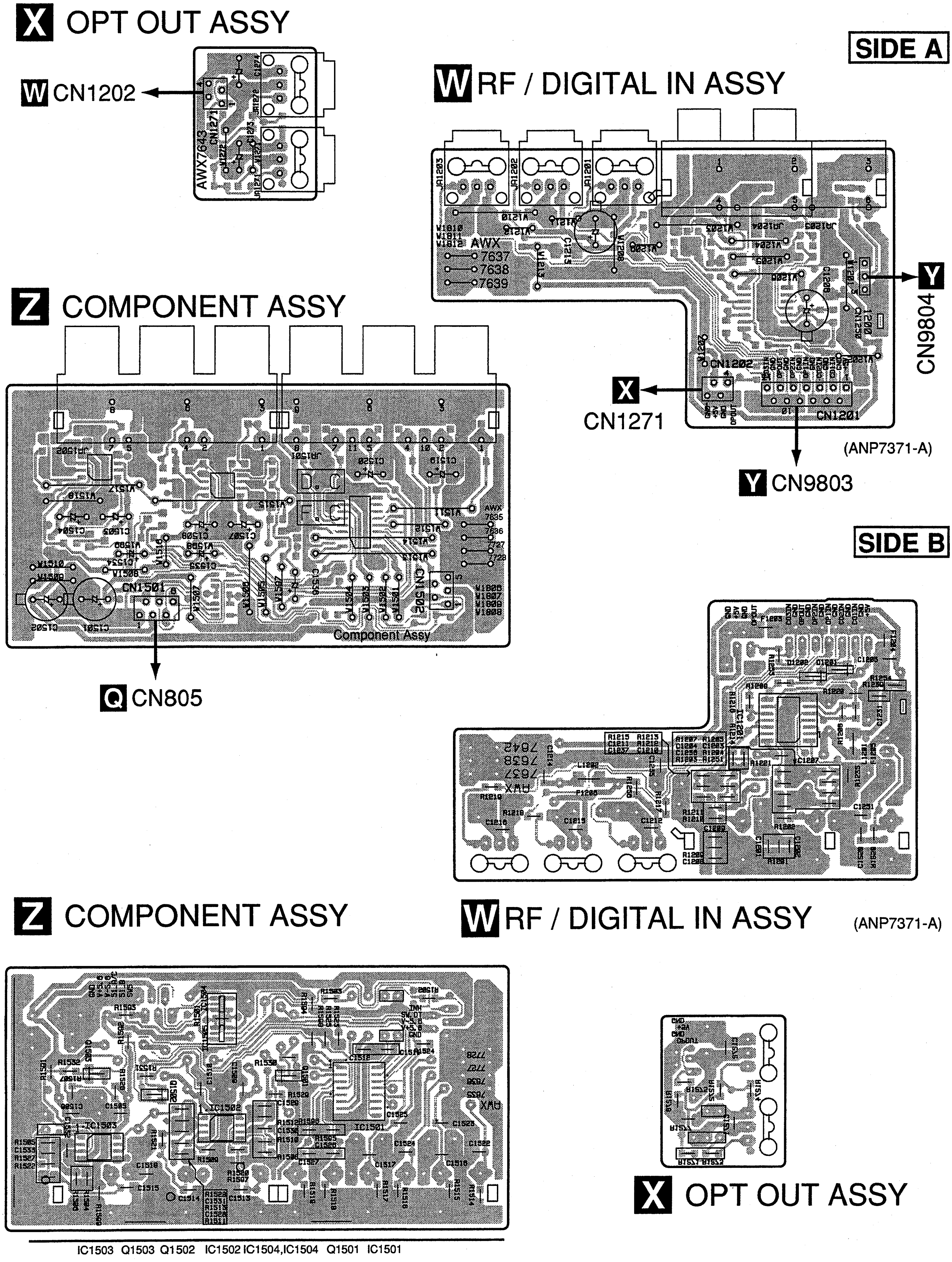
IC9706 IC9605


A
B
C
D
IC9041
IC9201
IC9202
Q9205
IC9701
IC9602
IC9702
IC9601
IC9703
IC9603
IC9704
IC9604
IC9705
IC9706
IC9605
IC9303
IC9302
IC9391
R0112
F0107
F0002
R9214
R9401
R9421
R9441
R9461
C9403
C9404
C9405
C9406
R9550
F9302
F9301

(ANP7373-A)

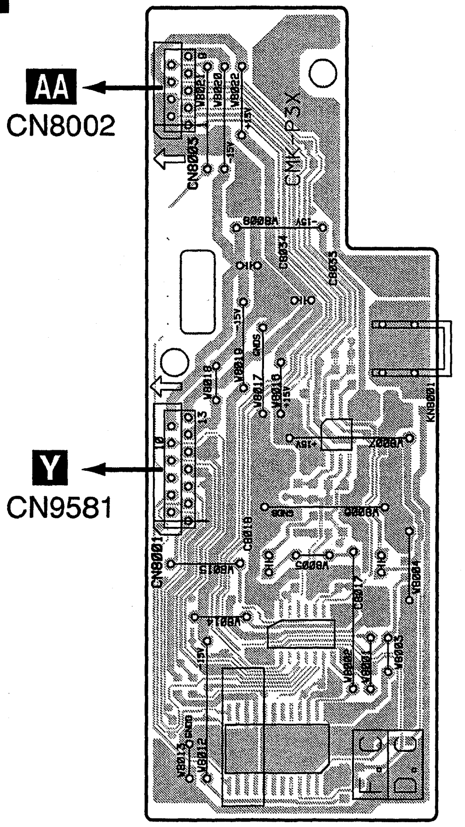
SIDE B

4.12 RF/DIGITAL IN, OPT OUT and COMPONENT ASSYS


X OPT OUT ASSY
W CN1202
AWX7643
CN1271
SIDE A
W RF / DIGITAL IN ASSY
JA1203
JA1202
JA1201
AWX 7637 7638 7639
C1213
C1208
CN1202
CN1201
Y CN9804
X CN1271
(ANP7371-A)
Y CN9803
Z COMPONENT ASSY
CN1501
CN1502
C1502
C1501
AWX 7635 7636 7727 7728
Component Assy
Q CN805
SIDE B
W RF / DIGITAL IN ASSY
(ANP7371-A)
Z COMPONENT ASSY
IC1503
IC1502
IC1501
X OPT OUT ASSY
IC1503 Q1503 Q1502 IC1502 IC1504,IC1504 Q1501 IC1501

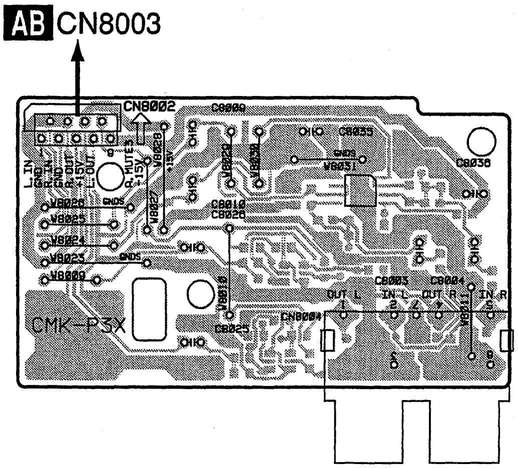
4.13 2CH I/O PJ and TRIM ASSYS

AB TRIM ASSY


AA
CN8002
Y
CN9581
CN8003
CN8001
CMK-P3X
KN8001
VR8001
VR8002
VR8003
VR8004
VR8010
VR8012
VR8017
VR8018
VR8019
VR8020
VR8021
VR8022
C8010
C8017
C8034
C8053
+15V
-15V
GNDS
AS1+
AS1-

AA 2CH - I/O PJ ASSY

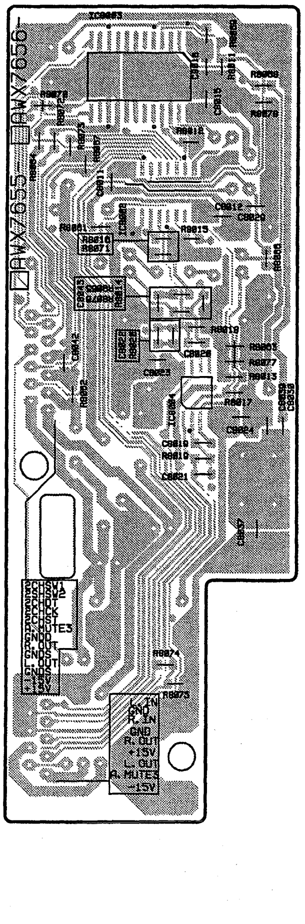
SIDE A


AB CN8003
CN8002
CN8004
C8009
C8010
C8020
C8025
C8030
C8003
C8004
C8035
VR8020
VR8023
VR8024
VR8025
VR8026
VR8027
VR8028
VR8029
VR8030
VR8031
L.IN
GND
R.IN
GND
R.OUT
+15V
L.OUT
R.MUTE3
+15V
-15V
GNDS
OUT L
IN L
OUT R
IN R
CMK-P3X

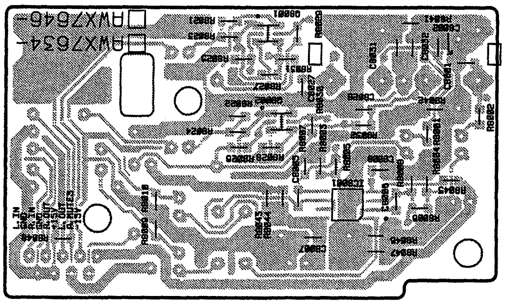
(ANP7372-A)

SIDE B

AB TRIM ASSY


IC8003
AWX7655
AWX7656
R8074
R8073
L.IN
GND
R.IN
GND
R.OUT
+15V
L.OUT
R.MUTE3
-15V
GNDS
+15V

AA 2CH -I/O PJ ASSY


AWX7646
AWX7654
IC8031

(ANP7372-A)

5. PCB PARTS LIST

NOTES: ● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47 × 10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Desacription	Part No.				Remarks
		VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
NSP	MAIN ASSY	AWK7640	AWK7641	AWK7642	AWK7643	
	├ MAIN CONTROL ASSY	AWX7705	AWX7706	AWX7707	AWX7708	
	├ VIDEO ASSY	AWX7307	AWX7394	AWX7394	AWX7394	
	└ S-VIDEO ASSY	AWX7678	AWX7679	AWX7679	AWX7679	
NSP	COMPLEX ASSY	AWK7497	AWK7522	AWK7522	AWK7522	
	├ REGULATOR ASSY	AWX7310	AWX7310	AWX7310	AWX7310	
	├ PRIMARY ASSY	AWX7311	AWX7311	AWX7311	AWX7311	
NSP	├ A-PINJACK ASSY	AWX7312	AWX7397	AWX7397	AWX7397	
	├ CONNECTION ASSY	AWX7313	AWX7313	AWX7313	AWX7313	
NSP	├ EXTRA-5.1 ASSY	AWX7314	Not used	Not used	Not used	
	├ EXTERNAL IN ASSY	Not used	AWX7398	AWX7398	AWX7398	
	├ TRANS 2-2 ASSY	AWX7366	AWX7366	AWX7366	AWX7366	
NSP	└ TRANS 1 ASSY	AWX7316	AWX7316	AWX7316	AWX7316	
NSP	COMPLEX 2 ASSY	AWK7626	AWK7627	AWK7628	AWK7628	
	├ COMPONENT ASSY	AWX7635	AWX7636	AWX7636	AWX7636	
	├ RF / DIGITAL IN ASSY	AWX7637	AWX7638	AWX7642	AWX7642	
NSP	└ OPT OUT ASSY	AWX7643	AWX7643	AWX7643	AWX7643	
NSP	2CH I/O ASSY	AWK7636	AWK7637	AWK7637	AWK7637	
	├ 2CH I/O PJ ASSY	AWX7634	AWX7646	AWX7646	AWX7646	
	└ TRIM ASSY	AWX7655	AWX7655	AWX7655	AWX7655	
NSP	FRONT/VAMP ASSY	AWK7667	AWK7656	AWK7657	AWK7658	
	├ V-AMP ASSY	AWX7729	AWX7309	AWX7309	AWX7409	
	├ DISPLAY ASSY	AWX7698	AWX7698	AWX7699	AWX7700	
NSP	├ ROTARY ENCODER ASSY	AWX7328	AWX7328	AWX7726	AWX7726	
	├ H. PHONE/F. VIDEO ASSY	AWX7342	AWX7342	AWX7528	AWX7528	
	└ VOLUME ASSY	AWX7367	AWX7367	Not used	Not used	
NSP	POWER/CURRENT ASSY	AWK7650	AWK7651	AWK7652	AWK7652	
NSP	├ C-AMP-P ASSY	AWX7680	AWX7680	AWX7680	AWX7680	
	├ C-AMP-N ASSY	AWX7681	AWX7681	AWX7681	AWX7681	
NSP	├ OUTPUT-FL ASSY	AWX7682	AWX7682	AWX7682	AWX7682	
NSP	├ OUTPUT-FR ASSY	AWX7683	AWX7683	AWX7683	AWX7683	
NSP	├ OUTPUT-C ASSY	AWX7684	AWX7684	AWX7684	AWX7684	
NSP	├ OUTPUT-SL ASSY	AWX7685	AWX7685	AWX7685	AWX7685	
NSP	├ OUTPUT-SR ASSY	AWX7686	AWX7686	AWX7686	AWX7686	
NSP	├ VL-TERMINAL ASSY	AWX7657	AWX7657	AWX7657	AWX7657	
	├ TRANS 2-1 ASSY	AWX7659	AWX7694	AWX7695	AWX7695	
	├ DIODE ASSY	AWX7660	AWX7697	AWX7697	AWX7697	
	└ SP/PS ASSY	AWX7658	AWX7688	AWX7689	AWX7689	
	DSP ASSY	AWX7632	AWX7632	AWX7633	AWX7633	

■CONTRAST OF PCB ASSEMBLIES

D MAIN CONTROL ASSY

AWX7705, AWX7706, AWX7707 and AWX7708 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.				Remarks
		AWX7705	AWX7706	AWX7707	AWX7708	
	IC112	M5220FP	UPC4570G2	UPC4570G2	UPC4570G2	
	IC113	M5220L	UPC4570HA	UPC4570HA	UPC4570HA	
	IC114	M5220L	UPC4570HA	UPC4570HA	UPC4570HA	
	R921	Not used	Not used	RS1/10S103J	RS1/10S103J	
	R922	RS1/10S103J	RS1/10S103J	Not used	Not used	
	R923	Not used	RS1/10S103J	Not used	RS1/10S103J	
	R924	RS1/10S103J	Not used	RS1/10S103J	Not used	
	R925	RS1/10S103J	Not used	Not used	RS1/10S103J	
	R926	Not usd	RS1/10S103J	RS1/10S103J	Not used	
	CN902 13P CONNECTOR	HLEM13R	HLEM13R	HLEM13R	HLEM13S	
	CN941 4P PIN JACK	Not used	AKB7015	AKB7015	AKB7015	
	JA911 2P PIN JACK	Not used	DKB1045	DKB1045	DKB1045	
	JA931 2P PIN JACK	Not used	VKB1060	VKB1060	VKB1060	
	103 6P PIN JACK	AKB7088	Not used	Not used	Not used	
	113 6P PIN JACK	Not used	AKB7089	AKB7089	AKB7089	
	JA901, JA911 4P PIN JACK	AKB7075	Not used	Not used	Not used	

E V-AMP ASSY

AWX7729, AWX7309 and AWX7409 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7729	AWX7309	AWX7409	
	IC7501, IC7521, IC7541, IC7601, IC7621	NJM2114MD	UPC4570G2	UPC4570G2	
	IC7502, IC7522, IC7542, IC7602, IC7622	NJM4558MD	NJM4558MD	Not used	
	Q7501, Q7521, Q7541, Q7601, Q7621	2SC2878	2SC2878	Not used	
	D7501, D7502, D7521, D7522, D7541, D7542	1SS355	1SS355	Not used	
	D7601, D7602, D7621, D7622	1SS355	1SS355	Not used	
	D7503, D7504, D7523, D7524, D7543, D7544	HZU2CLL	HZU2CLL	Not used	
	D7603, D7604, D7623, D7624	HZU2CLL	HZU2CLL	Not used	
	C7505, C7525, C7545, C7605, C7625	CCSQCH220J50	CCSQCH220J50	Not used	
	C7506, C7526, C7546, C7606, C7626	CEAT4R7M50	CEAT4R7M50	Not used	
	C7510, C7530, C7550, C7610, C7630	CKSQYB104K25	CKSQYB104K25	Not used	
	R7504, R7524, R7544, R7604, R7624	RS1/10S103J	RS1/10S103J	RS1/10S0R0J	
	R7509, R7529, R7549, R7609, R7629	RS1/10S103J	RS1/10S103J	Not used	
	R7507, R7508, R7510, R7527, R7528, R7530	RS1/10S334J	RS1/10S334J	Not used	
	R7547, R7548, R7550, R7607, R7608, R7610	RS1/10S334J	RS1/10S334J	Not used	
	R7627, R7628, R7630	RS1/10S334J	RS1/10S334J	Not used	
	R7511, R7531, R7551, R7611, R7631	RS1/10S102J	RS1/10S102J	Not used	
	R7512, R7513, R7516, R7517, R7532, R7533	RS1/10S473J	RS1/10S473J	Not used	
	R7536, R7537, R7552, R7553, R7556, R7557	RS1/10S473J	RS1/10S473J	Not used	
	R7612, R7613, R7616, R7617, R7632, R7633	RS1/10S473J	RS1/10S473J	Not used	
	R7636, R7637	RS1/10S473J	RS1/10S473J	Not used	
	R7514, R7534, R7554, R7614, R7634	RS1/10S101J	RS1/10S101J	Not used	
	R7515, R7518, R7535, R7538, R7555, R7558	RS1/10S105J	RS1/10S105J	Not used	
	R7615, R7618, R7635, R7638	RS1/10S105J	RS1/10S105J	Not used	
	R7641	RS1/10S914J	RS1/10S914J	Not used	
	R7653 - R7656, R7663 - R7666, R7673 - R7676	RS1/10S0R0J	RS1/10S0R0J	Not used	
	R7683 - R7686, R7693 - R7696	RS1/10S0R0J	RS1/10S0R0J	Not used	

B A-PINJACK ASSY

AWX7312 and AWX7397 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7312	AWX7397	
	CN1014 6P PIN JACK	AKB7119	Not used	
	JA1011 - JA1013 4P PIN JACK	AKB7108	AKB7048	
	JA1015 4P PIN JACK	Not used	AKB7048	
	1016 2P PIN JACK	Not used	AKB7120	

P VIDEO ASSY

AWX7307 and AWX7394 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7307	AWX7394	
	JA701 3P PIN JACK	AKB7109	Not used	
	JA703 3P PIN JACK	AKB7116	AKB7115	
	702 2P PIN JACK	AKB7076	Not used	
	707 1P PIN JACK	Not used	AKB7020	
	2P PIN JACK	Not used	AKB7017	

Q S-VIDEO ASSY

AWX7678 and AWX7679 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7678	AWX7679	
	CN801 4P MINI DIN SOCKET	Not used	AKP7043	
	CN802, CN803 4P MINI DIN SOCKET	AKP7023	AKP7020	
	JA801 4P MINI DIN SOCKET	AKP7049	Not used	

S DISPLAY ASSY

AWX7698, AWX7699 and AWX7700 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7698	AWX7699	AWX7700	
	IC7071	M66311FP	Not used	Not used	
	Q7002, Q7054	DTC124EK	DTC124EK	Not used	
	D7002	SLR-343DC(NPQ)	SLR-343DC(NPQ)	Not used	
	D7071 - D7079	SLR-343VR(MNP)	Not used	Not used	
	S7019, S7020	VSG1009	VSG1009	Not used	
	C7011, C7073, C7074	CKSQYB102K50	Not used	Not used	
	C7071	CEAL101M6R3	Not used	Not used	
	C7072	CKSQYB473K50	Not used	Not used	
	L7011, L7012	Not used	Not used	LCTA330J3225	
	R7038	RS1/10S271J	RS1/10S271J	Not used	
	R7042	RS1/10S103J	RS1/10S223J	RS1/10S223J	
	R7061	RS1/10S103J	RS1/10S103J	Not used	
	R7071 - R7079	RS1/10S271J	Not used	Not used	
	R7080 - R7083	RS1/10S102J	Not used	Not used	
	R7092	RS1/10S473J	Not used	Not used	
	R7099, R7100	RS1/10S0R0J	RS1/10S0R0J	Not used	
	CN7003 8P FFC CONNECTOR	52045-0845	Not used	Not used	
	505	VEF1040	Not used	Not used	

T ROTARY ENCODER ASSY

AWX7328 and AWX7726 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7328	AWX7726	
	S7101	Not used	ASX7004	
	C7103, C7104	Not used	CKSQYB103K50	
	R7103, R7104	Not used	RS1/10S103J	

Y DSP ASSY

AWX7632 and AWX7633 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7632	AWX7633	
	IC9041	NJM4558MD	Not used	
	IC9071	PM4007A	Not used	
	IC9091	LH52256CN-70LL	Not used	
	Q9001, Q9002, Q9004 - Q9006, Q9031	2SC3082K (NP)	Not used	
	Q9003, Q9032	2PD601A (QR)	Not used	
	Q9007	2PB709A (QR)	Not used	
	D9001	KV1851	Not used	
	D9002	1SS355	Not used	
	F9001	ATF7001	Not used	
	L9003	ATH7001	Not used	
	L9071	ATL7002	Not used	
	F9091, F9092	DTF1064	Not used	
	C9002 - C9006, C9008 - C9013, C9015, C9017	CKSRYF104Z16	Not used	
	C9018, C9031, C9032, C9051, C9052	CKSRYF104Z16	Not used	
	C9055, C9077, C9079, C9081, C9092	CKSRYF104Z16	Not used	
	C9043, C9058, C9073 - C9075, C9078, C9080	CKSQYF104Z25	Not used	
	C9007	CCSRCH750J50	Not used	
	C9014, C9054, C9056, C9070	CKSRYB103K50	Not used	
	C9016	CEJA470M25	Not used	
	C9033	CCSRCH101J50	Not used	
	C9041, C9042	CKSRYF105Z10	Not used	
	C9053	CEJQNP4R7M25	Not used	
	C9057	CCSRCH270J50	Not used	
	C9071	CEJQ101M10	Not used	
	C9076	CCSQCH271J50	Not used	
	C9091	CEJA470M16	Not used	
	C9095	CCSRCH221J50	Not used	
	R9002, R9010, R9011, R9018, R9038, R9053	RS1/16S103J	Not used	
	R9054, R9071, R9072	RS1/16S103J	Not used	
	R9003, R9019	RS1/16S512J	Not used	
	R9004, R9015, R9016, R9020	RS1/16S202J	Not used	
	R9005, R9006, R9014, R9021, R9022, R9025	RS1/16S102J	Not used	
	R9073	RS1/16S102J	Not used	
	R9007, R9023, R9033	RS1/16S220J	Not used	
	R9008, R9027, R9030	RS1/16S302J	Not used	
	R9009, R9074	RS1/16S221J	Not used	
	R9013, R9017, R9034	RS1/16S152J	Not used	
	R9024, R9026	RS1/16S332J	Not used	
	R9028, R9029	RS1/16S561J	Not used	
	R9031, R9032	RS1/16S333J	Not used	
	R9035	RS1/16S223J	Not used	
	R9036,R9091, R9095, R9096	RS1/16S0R0J	Not used	
	R9037, R9039	RS1/16S274J	Not used	
	R9041	RS1/16S472J	Not used	
	R9042, R9044, R9062	RS1/16S392J	Not used	
	R9043	RS1/16S273J	Not used	
	R9046	RS1/16S104J	Not used	
	R9047	RS1/16S432J	Not used	
	R9051	RS1/16S393J	Not used	
	R9052	RS1/16S243J	Not used	
	R9055	RS1/16S121J	Not used	
	R9056	RS1/16S683J	Not used	
	R9057 - R9059	RS1/16S473J	Not used	
	R9061	RS1/16S471J	Not used	
	R9075, R9076	RS1/16S101J	Not used	

Y DSP ASSY

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7632	AWX7633	
	CN9804 3P PLUG	KM250MA3	Not used	
	X9001 CRYSTAL RESONATOR (18.432MHz)	ASS7009	Not used	

K DIODE ASSY

AWX7660 and AWX7697 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7660	AWX7697	
	D3001, D3002	LN6SB60-4003	D5SBA20(B)	

W RF/DIGITAL IN ASSY

AWX7637, AWX7638 and AWX7642 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7637	AWX7638	AWX7642	
	JA1204 2P PIN JACK	AKB7092	AKB7091	AKB7095	
	1200	VEF1040	VEF1040	Not used	

Z COMPONENT ASSY

AWX7635 and AWX7636 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7635	AWX7636	
	JA1501 3P PIN JACK	AKB7127	AKB7128	
	JA1502 3P PIN JACK	AKB7125	AKB7126	

J TRANS 2-1 ASSY

AWX7659, AWX7694and AWX7695 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7659	AWX7694	AWX7695	
	C4501, C4503, C4504	ACH1237-A	Not used	Not used	
	C4502	ACH1237-A	ACH1237-A	Not used	
	C4509, C4510	CECA101M50	CEAT101M50	CEAT101M50	
	C4511, C4512	ACH1237-A	Not used	Not used	
	C4513	ACH1237-A	ACH1237-A	Not used	
	D4513	Not used	Not used	MTZJ16B	
	Q4503	Not used	Not used	DTC143ES	
	Q4504	Not used	Not used	DTA143ES	
	Q4505	Not used	Not used	DTC124ES	
	R4501, R4503, R4511	RFA1/4PS100J	Not used	Not used	
	R4502, R4504	RFA1/4PS100J	RFA1/4PS100J	Not used	

R H. PHONE / F. VIDEO ASSY

Although AWX7343 and AWX7528 are different in part number, they consist of the same components.

AA 2CH I/O PJ ASSY

AWX7634 and AWX7646 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7634	AWX7646	
	CN8004	AKB7129	AKB7087	

L SP / PS ASSY

AWX7658, AWX7688 and AWX7689 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7658	AWX7688	AWX7689	
	C3001, C3002	ACH7147	ACH7068	ACH7130	
	C3119 - C3122	CEAT470M50	Not used	Not used	
	L3001, L3002	ATX1012	ATX1012	Not used	
	Q3005	Not used	Not used	DTA124ES	
	RY3101, RY3103, RY3104	ASR-109	ASR7014	ASR7014	

■ PCB PARTS LIST FOR VSX-39TX/KU/CA

Mark	No. Description	Part No.

A EXTRA-5.1 ASSY

CAPACITORS

	C1107-C1112	CEAT4R7M50
	C1113-C1115	CKCYF103Z50

RESISTORS

	All Resistors	RD1/4PU□□□J

OTHERS

	JA1101-JA1103 2P PIN JACK	AKB7121
	CN1101 8P SOCKET	KP200TA8L

A EXTERNAL IN ASSY

CAPACITORS

	C1107-C1112	CEAT4R7M50
	C1113-C1115	CKCYF103Z50

RESISTORS

	All Resistors	RD1/4PU□□□J

OTHERS

	JA1101-JA1103	AKB7121
	CN1101 8P SOCKET	KP200TA8L

Mark	No. Description	Part No.

B A-PINJACK ASSY

CAPACITORS

	C1019-C1022	CKCYF103Z50

RESISTORS

	All Resistors	RD1/4PU□□□J

OTHERS

	JA1011-JA1013 4P PIN JACK	AKB7108
	CN1014 6P PIN JACK	AKB7119
	CN1001 18P SOCKET	KP200TA18L
	CN1002 4P SOCKET	KP200TA4L

C CONNECTION ASSY

SEMICONDUCTORS

	IC1351	M5220P
	IC1301-IC1303	NJM4558D-D

CAPACITORS

	C1351,C1352	CEAT100M50
	C1365,C1366	CEAT101M16
	C1363,C1364	CEAT2R2M50

Mark	No.	Description	Part No.
	C1357,C1358		CEAT470M25
	C1307-C1312		CEAT4R7M50
	C1313-C1318		CKCYF103Z50
	C1361,C1362		CQMA242J50
	C1359,C1360		CQMBA822J50

RESISTORS

	All Resistors		RD1/4PU□□□J

OTHERS

	CN1351	18P PLUG	KM200TA18
	CN1352	4P PLUG	KM200TA4
	CN1301	8P PLUG	KM200TA8
	CN1302	10P SOCKET	KP200TA10L
	CN1353	20P SOCKET	KP200TA20L

D MAIN CONTROL ASSY

SEMICONDUCTORS

	IC102		BU4052BCF
	IC110		M62429FP
	IC103,IC105,IC109		NJM4558MD
	IC901		PD5589A
	IC104,IC107		TC9163AF
	IC101		TC9274N-001
	IC108		TC9482N
	IC112		M5220FP
	IC113,IC114		M5220L
	Q991		2SC1740S
	Q251,Q252		2SC2412K
	Q113,Q114,Q271,Q272		2SC2878
	Q902-Q905		DTA124EK
	Q901		DTC143EK
	Q107-Q112		HN1C03F
	D254,D255,D901-D910,D991		1SS355
	D995		UDZ11B
	D201,D202,D256		UDZS5.1B

COIL

	L901	CHIP COIL	LCTA2R2J3225

CAPACITORS

	C902		ACH7058
	C951-C964		CCSQCH101J50
	C157,C158,C167,C168,C177		CCSQCH560J50
	C111,C112,C117,C118		CEAT100M50
	C127-C130,C141,C142		CEAT100M50
	C145,C146,C149,C150		CEAT100M50
	C153,C154,C159,C160		CEAT100M50
	C163,C164,C169,C170		CEAT100M50
	C173,C174,C179,C180		CEAT100M50
	C255,C256,C277,C278		CEAT100M50
	C123-C126,C991		CEAT101M16
	C147,C148,C257		CEAT1R0M50
	C903		CEAT221M10
	C121,C122		CEAT221M16
	C905		CEAT2R2M50
	C915		CEAT331M10
	C107,C108,C115,C116		CKSQYB103K50
	C133-C140,C143,C144		CKSQYB103K50
	C161,C162,C279,C280,C901		CKSQYB103K50
	C904,C908,C909,C914,C919		CKSQYB103K50

Mark	No.	Description	Part No.
	C965		CKSQYB103K50
	C273,C274		CKSQYB104K25
	C275,C276		CKSQYB332K50
	C178		CKSQYB333K50
	C271,C272		CKSQYB472K50
	C910,C912		CKSQYB473K50
	C906		CKSQYF105Z16
	C992		CKSQYF225Z16

RESISTORS

	R948		RA12T473J
	R913		RA5T103J
	R949		RA8T103J
	R109		RD1/2VM391J
	Other Resistors		RS1/10S□□□J

OTHERS

	X901	CERAMIC RESONATOR (4.19MHz)	ASS1018
	CN903	7P FFC CONNECTOR	HLEM7R-1
	CN902	13P FFC CONNECTOR	HLEM13R-1
	CN906	5P FFC CONNECTOR	HLEM5S-1
	CN105	23P FFC CONNECTOR	HLEM23S-1
	CN905	26P FFC CONNECTOR	HLEM26S-1
	CN904	32P FFC CONNECTOR	HLEM32S-1
	CN901,CN911	4P PIN JACK	AKB7075
	103	6P PIN JACK	AKB7088
	CN103	10P PLUG	KM200TA10
	CN101	20P PLUG	KM200TA20
	CN104	16P SOCKET	KP200IA16L
	CN901	15P SOCKET	KP200TA15L
	CN920	7P SOCKET	KP200TA7L
	CN108	9P SOCKET	KP200TA9L
	909,912,913	PCB BINDER	VEF1040

E V-AMP ASSY

SEMICONDUCTORS

	IC581		BU4052BCF
	IC7502,IC7522,IC7542,IC7602,IC7622		NJM4558MD
	IC7501,IC7521,IC7541,IC7601,IC7621		NJM2114MD
	Q503,Q523,Q543,Q603,Q623		2SA1048
⚠	Q506,Q509,Q526,Q529,Q546		2SA970
⚠	Q549,Q606,Q609,Q626,Q629		2SA970
⚠	Q507,Q508,Q527,Q528		2SC2240
⚠	Q547,Q548,Q607,Q608		2SC2240
	Q561		2SC2240
⚠	Q627,Q628		2SC2240
	Q510,Q530,Q550,Q610,Q630		2SC2878
	Q7501,Q7521,Q7541,Q7601,Q7621		2SC2878
	Q501,Q521,Q541,Q601,Q621		FMS3
	Q504,Q524,Q544,Q604,Q624		FMW4
	D501,D502,D504,D505		1SS355
	D521,D522,D524,D525		1SS355
	D541,D542,D544,D545		1SS355
	D581-D588,D601,D602		1SS355
	D604,D605,D621,D622		1SS355
	D624,D625,D7501,D7502		1SS355
	D7521,D7522,D7541,D7542		1SS355
	D7601,D7602,D7621,D7622		1SS355
	D7503,D7504,D7523,D7524		HZU2CLL

Mark	No.	Description	Part No.
	D7543,D7544,D7603,D7604		HZU2CLL
	D7623,D7624		HZU2CLL
	D503,D523,D543,D603,D623		UDZS6.8B
⚠	D506,D526,D546,D606,D626		UDZS8.2B

CAPACITORS

Mark	No.	Description	Part No.
	C511,C512,C531,C532		CCCSL181K2H
	C551,C552,C611,C612		CCCSL181K2H
	C631,C632		CCCSL181K2H
	C509,C529,C549,C609,C629		CCCSL5R0C2H
	C504,C524,C544,C604,C624		CCSQCH101J50
	C7504,C7505,C7524,C7525		CCSQCH220J50
	C7544,C7545,C7604,C7605		CCSQCH220J50
	C7624,C7625		CCSQCH220J50
	C502,C522,C542,C602,C622		CCSQCH221J50
	C506,C507,C526,C527		CCSQSL560J50
	C546,C547,C606,C607		CCSQSL560J50
	C626,C627		CCSQSL560J50
	C7501,C7521,C7541,C7601,C7621		CEAT100M50
	C505,C508,C525,C528,C545		CEAT101M16
	C548,C605,C608,C625,C628		CEAT101M16
	C510,C530,C550,C610,C630		CEAT470M16
	C513,C533,C553,C568,C569		CEAT470M50
	C613,C633		CEAT470M50
	C501,C521,C541,C601,C621		CEAT4R7M50
	C7506,C7526,C7546,C7606,C7626		CEAT4R7M50
	C7502,C7503,C7510,C7512		CKSQYB104K25
	C7522,C7523,C7530,C7532		CKSQYB104K25
	C7542,C7543,C7550,C7552		CKSQYB104K25
	C7602,C7603,C7610,C7612		CKSQYB104K25
	C7622,C7623,C7630,C7632		CKSQYB104K25
	C561-C565		CKSQYB222K50
	C503,C523,C543,C603,C623		CKSQYB332K50
	C570		CKSQYF223Z50
	C581,C582		CKSQYF225Z16

RESISTORS

Mark	No.	Description	Part No.
	R518,R538,R558,R618,R638		RD1/4MUF473J
⚠	R513,R514,R533,R534		RS1/10S121J
⚠	R553,R554,R613,R614		RS1/10S121J
⚠	R633,R634		RS1/10S121J
		Other Resistors	RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN501	23P FFC CONNECTOR	52045-2345
	CN502	28P FFC CONNECTOR	52045-2845
	CN504	3P PLUG	KM250MA3
	506	PCB BINDER	VEF1040

F C-AMP-N ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q2503,Q2523,Q2543,Q2603,Q2623		2SA970
	Q2001,Q2002		2SC1740S
	Q2502,Q2522,Q2542,Q2602,Q2622		2SC4137
⚠	Q2501,Q2521,Q2541,Q2601,Q2621		IRF540A
	D2501-D2504,D2521-D2524		1SS133
	D2541-D2544,D2601-D2604		1SS133
	D2621-D2624		1SS133

CAPACITORS

Mark	No.	Description	Part No.
	C2501,C2521,C2541,C2601,C2621		CEANPR22M50
	C2001		CEAT101M10

RESISTORS

Mark	No.	Description	Part No.
⚠	R2506,R2510,R2526,R2530,R2546		RD1/4PUF391J
⚠	R2550,R2606,R2610,R2626,R2630		RD1/4PUF391J
⚠	R2501,R2521,R2541,R2601,R2621		RD1/4PUF470J
	VR2501,VR2521,VR2541,VR2601	(22Ω)	RCP1134
	VR2621	(22Ω)	RCP1134
		Other Resistors	RD1/4PU□□□J

OTHERS

Mark	No.	Description	Part No.
	CN2001	28P FFC CONNECTOR	HLEM28S-1
	CN2501,CN2521,CN2541,CN2601	7P PLUG	KM250NA7L
	CN2621	8P PLUG	KM250NA8L

G C-AMP-P ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	Q2504,Q2524,Q2544,Q2604,Q2624		IRF9540A

RESISTORS

Mark	No.	Description	Part No.
⚠	R2511,R2531,R2551,R2611,R2631		RD1/4PUF470J

OTHERS

Mark	No.	Description	Part No.
	CN2504,CN2524,CN2544,CN2604	5P PLUG	KM250NA5L
	CN2624	5P PLUG	KM250NA5L

HA OUTPUT-SL ASSY

RESISTOR

Mark	No.	Description	Part No.
⚠	R2612	(0.05Ω/5W)	ACN7097

OTHERS

Mark	No.	Description	Part No.
	CN2603	5P SOCKET	KP250NA5
	CN2602	7P SOCKET	KP250NA7

HB OUTPUT-FL ASSY

RESISTOR

Mark	No.	Description	Part No.
⚠	R2512	(0.05Ω/5W)	ACN7097

OTHERS

Mark	No.	Description	Part No.
	CN2503	5P SOCKET	KP250NA5
	CN2502	7P SOCKET	KP250NA7

HC OUTPUT-C ASSY

RESISTOR

Mark	No.	Description	Part No.
⚠	R2552	(0.05Ω/5W)	ACN7097

OTHERS

Mark	No.	Description	Part No.
	CN2543	5P SOCKET	KP250NA5
	CN2542	7P SOCKET	KP250NA7

Mark	No.	Description	Part No.

HD OUTPUT-FR ASSY

RESISTOR

⚠	R2532	(0.05Ω/5W)	ACN7097

OTHERS

	CN2523	5P SOCKET	KP250NA5
	CN2522	7P SOCKET	KP250NA7

HE OUTPUT-SR ASSY

RESISTOR

⚠	R2632	(0.05Ω/5W)	ACN7097

OTHERS

	CN2623	5P SOCKET	KP250NA5
	CN2622	8P SOCKET	KP250NA8

I VL-TERMINAL ASSY

CAPACITORS

	C2011,C2012		CEAT470M63

OTHERS

	KN2011,KN2012	GROUND PLATE	ANK-142

J TRANS 2-1 ASSY

SEMICONDUCTORS

⚠	IC4501,IC4502	(2.5A)	AEK7014
⚠	Q4502		2SA1837
⚠	Q4501		2SC4793
	D4509,D4510		MTZJ12B
	D4505-D4508		MTZJ20A
⚠	D4501-D4504		S5688G
	D4511,D4512		S5688G

CAPACITORS

	C4501-C4504,C4511-C4513		ACH1237
	C4509,C4510		CECA101M50
	C4507,C4508		CEAT471M63

RESISTORS

⚠	R4509,R4510		RD1/4PMF332J
	R4501-R4504,R4511		RFA1/4PS100J
	Other Resistors		RD1/4PU□□□J

OTHERS

	4001	9P CABLE HOLDER	51048-0900
	H4501-H4504	FUSE CLIP	AKR1004
	4501,4502	HEAT SINK	ANH-309
	4503,4504	SCREW	BPZ30P080FZK

Mark	No.	Description	Part No.

K DIODE ASSY

SEMICONDUCTORS

⚠	D3001,D3002		LN6SB60-4003

L SP/PS ASSY

SEMICONDUCTORS

	Q3156-Q3159		DTA124ES
	Q3151-Q3155		DTC143ES
	D3051,D3053,D3055,D3057,D3059		1SS133

COILS AND FILTERS

	L3101-L3105	AF CHOKE COIL	ATH1053
	L3001,L3002	CHIP BEAD	ATX1012

RELAYS

	RY3101,RY3103,RY3104		ASR-109
	RY3102,RY3105		ASR7014

CAPACITORS

	C3001,C3002	(22000µF/56V)	ACH7147
	C3118-C3122		CEAT470M50
	C3101-C3105		CFTYA104J50
	C3111-C3117		CQHA102J2A

RESISTORS

	R3151-R3155		RD1/2PM331J
⚠	R3101-R3105		RD1/4PMF4R7J
	R3001,R3002		RD1/4PMF473J
⚠	R3106-R3110		RS1LMF4R7J
⚠	R3131,R3132		RS2LMF331J
	Other Resistors		RD1/4PM□□□J

OTHERS

	3004	8P CABLE HOLDER	51048-0800
	3001	9P CABLE HOLDER	51048-0900
	CN3003	14P FFC CONNECTOR	HLEM14S-1
	CN3101	8P SPEAKER TERMINAL	AKE7058
	CN3102	6P SPEAKER TERMINAL	AKE7060
	J3002	JUMPER WIRE 8P	D20PYY0825E
	J3001	JUMPER WIRE 9P	D20PYY0915E
	CN3001	4P PLUG	KM200TA4

M REGULATOR ASSY

SEMICONDUCTORS

⚠	IC5009,IC5010	(200mA)	AEK7023
⚠	IC5004,IC5008		NJM78M05FA
⚠	IC5003		NJM78M12FA
⚠	IC5001		NJM78M15FA
⚠	IC5005,IC5007		NJM78M56FA
⚠	IC5006		NJM79M05FA
⚠	IC5002		NJM79M15FA
	D5010,D5051		1SS133
⚠	D5009		D3SBA20(B)
	D5012-D5014		MTZJ10C
	D5011		MTZJ5.1B
⚠	D5001-D5008,D5015-D5017		S5688G

CAPACITORS

Mark	No.	Description	Part No.
	C5015,C5017,C5019,C5021,C5023		CEAT101M10
	C5009,C5011,C5013,C5025		CEAT101M25
	C5024		CEAT101M50
	C5051		CEAT221M10
	C5026		CEAT221M35
	C5027,C5028		CEAT221M50
	C5001,C5003,C5006		CEAT222M25
	C5002,C5004		CEAT222M35
	C5005		CEAT332M25
	C5007		CEAT472M16
	C5008,C5010,C5012,C5014,C5016		CKCYF103Z50
	C5018,C5020,C5022		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R5001-R5003		RD1/2PM620J

OTHERS

Mark	No.	Description	Part No.
	5009	4P CABLE HOLDER	51048-0400
	CN5002	14P FFC CONNECTOR	52045-1445
	CN5001	8P JUMPER CONNECTOR	52147-0810
	J5000	BOARD IN WIRE	DB022ND0
	CN5004	16P PLUG	KM200IA16
	CN5005	15P PLUG	KM200TA15
	CN5007	17P PLUG	KM200TA17
	CN5008	7P PLUG	KM200TA7
	CN5003,CN5006	9P PLUG	KM200TA9
	KN5001,KN5002	EARTH METAL FITTING	VNF1084

N TRANS 1 ASSY

TRANS 1 Assy has no service parts.

O TRANS 2-2 ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
⚠	IC5501 (4A)		AEK7018

OTHERS

Mark	No.	Description	Part No.
	5501	4P CABLE HOLDER	51048-0400

P VIDEO ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC751		BU4053BCF
	IC752		LC74782M-9011
	IC731		NJM2279M
	IC701		NJM2296M
	Q701		2SA933S
	Q751-Q754		2SC1740S
	Q755		DTC124EK
	D701,D702,D731,D751-D753		1SS355

COILS

Mark	No.	Description	Part No.
	L752,L753	CHIP COIL	LCTA100J3225
	L751	CHIP COIL	LCTA330J3225

CAPACITORS

Mark	No.	Description	Part No.
	C753		CCSQCH100D50
	C763,C772		CCSQCH101J50
	C715,C759		CCSQCH150J50
	C760		CCSQCH180J50
	C705-C707,C731		CCSQCH181J50
	C761,C762		CCSQCH240J50
	C754		CEAT100M50
	C701-C704,C710-C712		CEAT101M10
	C734,C735,C755,C764,C765		CEAT101M10
	C781-C784		CEAT101M10
	C713,C768,C769		CEAT101M16
	C757		CEAT1R0M50
	C752		CEAT330M16
	C791,C795,C797		CKSQYB103K50
	C756		CKSQYB122K50
	C708,C709,C714,C732,C733		CKSQYB473K50
	C736,C766,C767,C770,C771		CKSQYB473K50
	C785,C786,C793		CKSQYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R715		RD1/2VM201J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X751	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	CN702	21P FFC CONNECTOR	52045-2145
	CN701	26P FFC CONNECTOR	52045-2645
	702	2P PIN JACK	AKB7076
	JA701	3P PIN JACK	AKB7109
	JA703	3P PIN AJCK	AKB7116
	JA705	MULTI HOME JACK	AKN7014
	704	PCB BINDER	VEF1040

Q S-VIDEO ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC831		BU4051BCF
	IC852		BU4053BCF
	IC851		LA7213
	IC801,IC802		NJM2296M
	Q852,Q853		2SA933S
	Q851		DTC124ES
	Q833,Q834		IMH11
	Q831		IMZ1A
	D801,D802,D804,D805,D831		1SS355
	D832,D851		1SS355

CAPACITORS

Mark	No.	Description	Part No.
	C857		CCSQCH100D50
	C854		CCSQCH151J50
	C815-C818,C861,C862		CCSQCH181J50
	C898		CCSQCH221J50
	C809,C858		CCSQCH330J50
	C801,C803,C805,C807		CEAT101M10
	C819-C822,C852,C853,C863		CEAT101M10
	C881,C882		CEAT101M10
	C866,C868		CEAT101M16
	C851		CEAT3R3M50
	C831-C836,C855,C856,C891		CKSQYB103K50

Mark	No.	Description	Part No.
	C893,C894,C899		CKSQYB103K50
	C810-C814,C859,C860		CKSQYB104K25
	C864,C865		CKSQYB104K25
	C802,C804,C806,C808		CKSQYB473K50
	C823-C826,C867,C869		CKSQYB473K50

RESISTORS

	R864		RD1/2VM201J
	R859		RD1/4VM471J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN804	21P FFC CONNECTOR	HLEM21S-1
	CN802,CN803	4P MINI DIN SOCKET	AKP7023
	CN805	6P FFC CONNECTOR	HLEM6S-1
	JA801	4P MINI DIN SOCKET	AKP7049
	JA881,JA882	REMOTE CONTROL JACK	RKN1004
	801	PCB BINDER	VEF1040

R H. PHONE/F. VIDEO ASSY

SEMICONDUCTORS

	Q7201,Q7202		2SC1740S

CAPACITORS

	C7201,C7202,C7215,C7216		CCSQCH271J50
	C7203,C7204		CCSQCH330J50
	C7208,C7209		CEAT101M10
	C7207		CEAT470M35
	C7210,C7212		CKSQYB103K50
	C7211		CKSQYB104K25
	C7213,C7214		CKSQYB105K10
	C7217,C7218		CKSQYB392K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN7201	12P FFC CONNECTOR	52045-1245
	CN7202	FRONT PIN JACK 4P	AKX7007
	JA7201	HEADPHONE JACK	RKB1014
	KN7201	EARTH METAL FITTING	VNF1084

S DISPLAY ASSY

SEMICONDUCTORS

	IC7071		M66311FP
	IC7001		PD5595A
	IC7051		TC7W53FU
	Q7051		2SA1037K
	Q7005		2SC2412K
	Q7001,Q7002,Q7052,Q7054		DTC124EK
	Q7053		FMA1A
	D7007-D7010,D7051-D7057		1SS355
	D7002		SLR-343DC(NPQ)
	D7001,D7071-D7079		SLR-343VR(MNP)

COIL

	L7001		LFA2R2J
	L7011,L7012		LCTA330J3225

Mark	No.	Description	Part No.

SWITCHES

	S7001-S7030		VSG1009

CAPACITORS

	C7010 (0.047µF/5.5V)		ACH7132
	C7007		CCSQCH101J50
	C7008,C7013,C7071		CEAL101M6R3
	C7701,C7702		CEAT100M50
	C7052		CEAT101M6R3
	C7001-C7005,C7011,C7073,C7074		CKSQYB102K50
	C7091		CKSQYB102K50
	C7051		CKSQYB103K50
	C7009,C7072		CKSQYB473K50
	C7053		CKSQYB153K50

RESISTORS

	R7044		RA15T104J
	Other Resistors		RS1/10S□□□J

OTHERS

	X7001	CERAMIC RESONATOR (7.2MHz)	ASS7018
	7001	3P CABLE HOLDER	51052-0300
	7002,7003	8P CABLE HOLDER	51052-0800
	CN7005	5P FFC CONNECTOR	52045-0545
	CN7002	6P FFC CONNECTOR	52045-0645
	CN7003	8P FFC CONNECTOR	52045-0845
	CN7004	12P FFC CONNECTOR	52045-1245
	CN7001	32P FFC CONNECTOR	52045-3245
	V7001	FL TUBE	AAV7063
	505	PCB BINDER	VEF1040

T ROTARY ENCODER ASSY

SWITCH

	S7102		ASX7031

CAPACITORS

	C7101,C7102		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN7101	6P FFC CONNECTOR	52044-0645

U VOLUME ASSY

SEMICONDUCTORS

	Q7301,Q7302		2SA1993
	Q7303,Q7304		2SC5395
	D7301		1SR154-400

CAPACITORS

	C7301		CEANP100M16
	C7302		CEAT220M50
	C7303		CEAT471M6R3

RESISTORS

Mark	No.	Description	Part No.
	VR7301	(VARIABLE WITH MOTOR)	ACX7037
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN7301	8P FFC CONNECTOR	52045-0845
	KN7301	EARTH METAL FITTING	VNF1084

V PRIMARY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC6001		NJM78M56FA
	Q6001		DTC143ES
	D6005-D6007		1SS133
	D6008		MTZJ5.1A
⚠	D6001-D6004		S5688G

COIL

Mark	No.	Description	Part No.
⚠	L6001	LINE FILTER	ATF1006

TRANSFORMER

Mark	No.	Description	Part No.
⚠	T6001	STANDBY TRANS.	ATT7043

RELAY

Mark	No.	Description	Part No.
⚠	RY6001	POWER RELAY	ASR7022

CAPACITORS

Mark	No.	Description	Part No.
⚠	C6002,C6003	(10000pF/AC250V)	ACG7020
	C6005		CEAT102M16
	C6006		CEAT470M25
	C6004		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R6001	(2.2MΩ, 1/2W)	RCN1080
	R6003		RD1/2PM270J
	Other Resistors		RD1/4PU□□□J

OTHERS

Mark	No.	Description	Part No.
⚠	6004	3P AC OUTLET	AKP1053
	H6001,H6002	FUSE CLIP	AKR1004
	CN6003	4P SOCKET	KP200TA4L
⚠	CN6002	AC CORD SOCKET	RKP1751
	6005	PCB BINDER	VEF1040
	6002,6003	SCREW TERMINAL	VNE1948

W RF/DIGITAL IN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1201		TC74HCU04AF

COILS AND FILTERS

Mark	No.	Description	Part No.
	F1203-F1206	CHIP BEAD	DTF1064

CAPACITORS

Mark	No.	Description	Part No.
	C1204,C1211		CCSQCH470J50
	C1206,C1213		CEAT470M10
	C1203,C1210,C1250		CKSQYB103K50
	C1207,C1212,C1215,C1216		CKSQYF104Z25
	C1236,C1237		CKSQYF104Z25
	C1251		CKSQYF473Z25

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN1201	13P FFC CONNECTOR	HLEM13S-1
	CN1202	4P FFC CONNECTOR	HLEM4S-1
	JA1204	3P PIN JACK	AKB7092
	JA1201,JA1202,JA1203	OPTICAL RECEIVE MOD.	GP1FA551RZ
	CN1250	3P PLUG	KM250MA3
	1200	PCB BINDER	VEF1040

X OPT OUT ASSY

CAPACITORS

Mark	No.	Description	Part No.
	C1271,C1272		CKSQYF104Z50
	C1273,C1274		CEAT221M10

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN1271	4P FFC CONNECTOR	HLEM4S-1
	JA1271,JA1272	OPTICAL LINK MOD.	GP1FA551TZ

Y DSP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9351		AK7706VT
	IC9301		CS493292
	IC9203		CS5360-KS
	IC9101		CS8414-CS
	IC9201,IC9202		NJM2100M
	IC9041		NJM4558MD
	IC9401,IC9421,IC9441,IC9461		PCM1716E4
	IC9501		PD5590A
	IC9304		PDN030A
	IC9071		PM4007A
	IC9391		PQ7VZ5
	IC9392		PQ20WZ51
	IC9091		LH52256CN-70LL
	IC9305		TC74LVX244FT
	IC9352		TC551001CST-70L
	IC9151		TC74ACT151F
	IC9102		TC74VHC157FT
	IC9302,IC9303		TC74VHC574F
	IC9306		TC74VHCT244AFT
	IC9309		TC7W125FU
	IC9204,IC9307		TC7WU04FU
	IC9601		TC9164AF
	IC9308		TC9246F
	IC9602-IC9705,IC9701-IC9706		UPC4570G2
	Q9007		2PB709A
	Q9003,Q9032		2PD601A
	Q9001,Q9002,Q9004-Q9006,Q9031		2SC3082K
	Q9201,Q9202,Q9601-Q9606		2SC3326
	Q9611,Q9612		2SC3326
	Q9102,Q9104,Q9203,Q9607		DTA124EK
	Q9609,Q9610		DTA124EK
	Q9101,Q9103,Q9204,Q9205,Q9608		DTC124EK

Mark	No.	Description	Part No.
	Q9500		DTA144EK
	D9601,D9602		1SS181
	D9201-D9204		1SS226
	D9002,D9501,D9502		1SS355
	D9001		KV1851

COILS AND FILTERS

Mark	No.	Description	Part No.
	F9001	BPF	ATF7001
	L9003	INDUCTOR	ATH7001
	L9071,L9391,L9392,L9401,L9402	CHIP FERRITE BEAD	ATL7002
	L9421,L9422,L9441,L9442	CHIP FERRITE BEAD	ATL7002
	L9461,L9462,L9481,L9482,L9801	CHIP FERRITE BEAD	ATL7002
	L9807,L9809	CHIP FERRITE BEAD	ATL7002
	F9091,F9092,F9102,F9106-F9108		DTF1064
	F9111,F9151,F9152,F9201,F9301		DTF1064
	F9302,F9306,F9308,F9352,F9501	CHIP BEAD	DTF1064
	L9105,L9203,L9204,L9206,L9207	CHIP SOLID INDUCTOR	QTL1013
	L9303	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C9231,C9232,C9493-C9496,C9809		CCSQCH221J50
	C9815,C9816		CCSQCH221J50
	C9076,C9104,C9106,C9112,C9154		CCSQCH271J50
	C9502		CCSQCH271J50
	C9224,C9225		CCSQCH330J50
	C9303,C9305,C9307,C9315,C9318		CCSQCH471J50
	C9320,C9322,C9325,C9328,C9353		CCSQCH471J50
	C9355,C9357,C9359,C9361,C9364		CCSQCH471J50
	C9368		CCSQCH471J50
	C9504,C9505		CCSQCH7R0D50
	C9033,C9313,C9609,C9610		CCSRCH101J50
	C9721,C9722,C9735		CCSRCH101J50
	C9310		CCSRCH180J50
	C9791,C9792		CCSRCH201J50
	C9311		CCSRCH220J50
	C9095,C9621,C9622,C9742-C9746		CCSRCH221J50
	C9761-C9766,C9779-C9782		CCSRCH221J50
	C9057,C9201,C9202		CCSRCH270J50
	C9214,C9220,C9309,C9403,C9423		CCSRCH271J50
	C9443,C9463,C9629		CCSRCH271J50
	C9719,C9720,C9733,C9775,C9776		CCSRCH331J50
	C9741		CCSRCH470J50
	C9333,C9571,C9617,C9618,C9639		CCSRCH471J50
	C9211,C9717,C9718,C9731,C9808		CCSRCH561J25
	C9773,C9774		CCSRCH561J25
	C9777,C9778		CCSRCH680J50
	C9007		CCSRCH750J50
	C9707,C9708		CCSRCH820J50
	C9611,C9612		CCSRCH821J25
	C9481		CEAT221M10
	C9338		CEAT471M10
	C9091,C9102,C9108,C9114,C9151		CEJA470M16
	C9362		CEJA470M16
	C9016		CEJA470M25
	C9323,C9326,C9331,C9366		CEJQ100M25
	C9643,C9644,C9756		CEJQ100M25
	C9071,C9301,C9316,C9351,C9392		CEJQ101M10
	C9395,C9501,C9740,C9801		CEJQ101M10
	C9329		CEJQ2R2M50
	C9216,C9219,C9222,C9401,C9405		CEJQ330M10
	C9408,C9421,C9425,C9428,C9441		CEJQ330M10
	C9337		CEJQ470M10
	C9803,C9805		CEJQ470M25
	C9406,C9409,C9426,C9429,C9446		CEJQ470M6R3
	C9449,C9466,C9469		CEJQ470M6R3
	C9206,C9207,C9391,C9394		CEJQ4R7M50
	C9053		CEJQNP4R7M25
	C9110		CEJQR47M50
	C9713,C9714,C9727,C9728,C9739		CEWAR330M10
	C9751-C9755,C9757,C9758		CEWAR330M10
	C9785,C9786		CEWAR330M10
	C9203,C9204,C9603,C9604		CEWAR4R7M50
	C9615,C9616,C9627,C9628		CEWAR4R7M50
	C9789,C9790		CEWAR4R7M50
	C9070,C9103,C9107,C9113,C9153		CKSQYB103K50
	C9217,C9223,C9302,C9304,C9306		CKSQYB103K50
	C9314,C9317,C9319,C9321,C9324		CKSQYB103K50
	C9327,C9336,C9352,C9354,C9356		CKSQYB103K50
	C9358,C9360,C9363,C9367		CKSQYB103K50
	C9507,C9508		CKSQYB103K50
	C9334		CKSQYB123K50
	C9335		CKSQYB474K16
	C9509		CKSQYF103Z50
	C9043,C9058,C9073-C9075,C9078		CKSQYF104Z25
	C9080,C9205,C9208,C9503		CKSQYF104Z25
	C9212,C9575		CKSRYB102K50
	C9014,C9054,C9056,C9105,C9158		CKSRYB103K50
	C9221,C9308,C9332,C9402,C9422		CKSRYB103K50
	C9442,C9462,C9506,C9636,C9637		CKSRYB103K50
	C9626,C9730		CKSRYB104K16
	C9605,C9606,C9633,C9795,C9796		CKSRYB122K50
	C9703,C9704,C9715,C9716,C9729		CKSRYB182K50
	C9771,C9772		CKSRYB182K50
	C9601,C9602,C9613,C9614,C9625		CKSRYB222K50
	C9787,C9788		CKSRYB222K50
	C9701,C9702		CKSRYB272K50
	C9732		CKSRYB333K16
	C9645		CKSRYB472K50
	C9215,C9218,C9404,C9407,C9424		CKSRYB473K16
	C9427,C944,C9447,C9464,C9467		CKSRYB473K16
	C9111		CKSRYB682K50
	C9020		CKSRYB683K16
	C9736		CKSRYB821K50
	C9002-C9006,C9008-C9013,C9015		CKSRYF104Z16
	C9017,C9018,C9031,C9032		CKSRYF104Z16
	C9051,C9052,C9055,C9077,C9079		CKSRYF104Z16
	C9081,C9092,C9209,C9210		CKSRYF104Z16
	C9607,C9608,C9619,C9620		CKSRYF104Z16
	C9631,C9632,C9709-C9712		CKSRYF104Z16
	C9723-C9726,C9737,C9738		CKSRYF104Z16
	C9783,C9784,C9793,C9794		CKSRYF104Z16
	C9041,C9042		CKSRYF105Z10
	C9312		CKSRYF224Z16

RESISTORS

Mark	No.	Description	Part No.
	R9575		ACN7060
	R9571		DCN1092
	R9377,R9378		DCN1094
	R9036,R9099,R9119,R9130,R9131		RS1/10S0R0J

Mark	No.	Description	Part No.
	R9158,R9160,R9320,R9321,R9336		RS1/10S0R0J
	R9343,R9387,R9401,R9421,R9441		RS1/10S0R0J
	R9461,R9902-R9904,R9906		RS1/10S0R0J
	R9908,R9909,R9999		RS1/10S0R0J
	R9103,R9333,R9531-R9535		RS1/10S101J
	R9226,R9239,R9510,R9520		RS1/10S102J
	R9524-R9529		RS1/10S102J
	R9214,R9550		RS1/10S103J
	R9335		RS1/10S120J
	R9074,R9128		RS1/10S221J
	R9120,R9369		RS1/10S331J
	R9331		RS1/10S332J
	R9332		RS1/10S391J
	R9061,R9105		RS1/10S471J
	R9112		RS1/10S561J
	R9763,R9764		RS1/10S822J
	R9391,R9392		RS1/16S1201F
	R9396		RS1/16S2001F
	Other Resistors		RS1/16S□□□J

OTHERS

	X9001	CRYSTAL RESONATOR (18.432MHz)	ASS7009
	X9501	CRYSTAL RESONATOR (20MHz)	ASS7032
	X9201	CRYSTAL RESONATOR (12.288MHz)	DSS1030
	X9301	CHIP RESONATOR (27.0MHz)	VSS1086
	CN9571	7P FFC CONNECTOR	HLEM7S-1
	CN9581,CN9803	13P FFC CONNECTOR	HLEM13S-1
	CN9804	3P PLUG	KM250MA3
	CN9801	17P SOCKET	KP200TA17L
	CN9802	9P SOCKET	KP200TA9L
	CN9501	8P FFC CONNECTOR	VKN1598

Z COMPONENT ASSY

SEMICONDUCTORS

	IC1501		TC74HC4053AF
	IC1502,IC1503		TK15420M
	IC1504		TC7S86F
	IC1505		TC7S00F
	Q1501-Q1503		DTC124EK

CAPACITORS

	C1505,C1506,C1509-C1512		CKSQYB103K50
	C1516-C1518		CKSQYB103K50
	C1501-C1504,C1507,C1508		CEAT101M10

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN1501	6P FFC CONNECTOR	HLEM6S-1
	JA1502	3P PIN JACK	AKB7125
	JA1501	6P PIN JACK	AKB7127

Mark	No.	Description	Part No.

AA 2CH I/O PJ ASSY

SEMICONDUCTORS

	IC8001		UPC4570G2
	Q8001,Q8002		HN1C03F

CAPACITORS

	C8001,C8002		CCSQCH101J50
	C8027,C8028,C8032		CCSQCH221J50
	C8007,C8008,C8031		CKSQYF104Z25
	C8025,C8026		CEAL100M50
	C8003,C8004,C8009,C8010		CEAL4R7M50
	C8035,C8036		CEJA470M25

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN8002	9P FFC CONNECTOR	HLEM9S-1
	JA8004	4P PIN JACK	AKB7129

AB TRIM ASSY

SEMICONDUCTORS

	IC8002		TC9215AF
	IC8003		TC9459F
	IC8004		UPC4570G2

CAPACITORS

	C8019,C8020		CCSQCH331J50
	C8021,C8022		CCSQCH560J50
	C8011,C8012,C8015,C8016,C8023		CKSQYF104Z25
	C8024,C8039		CKSQYF104Z25
	C8017,C8018		CEAL100M50
	C8033,C8034		CEJA470M25

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN8001	13P FFC CONNECTOR	HLEM13S-1
	CN8003	9P FFC CONNECTOR	HLEM9S-1
	8001	SCREW TERMINAL	VNE1948

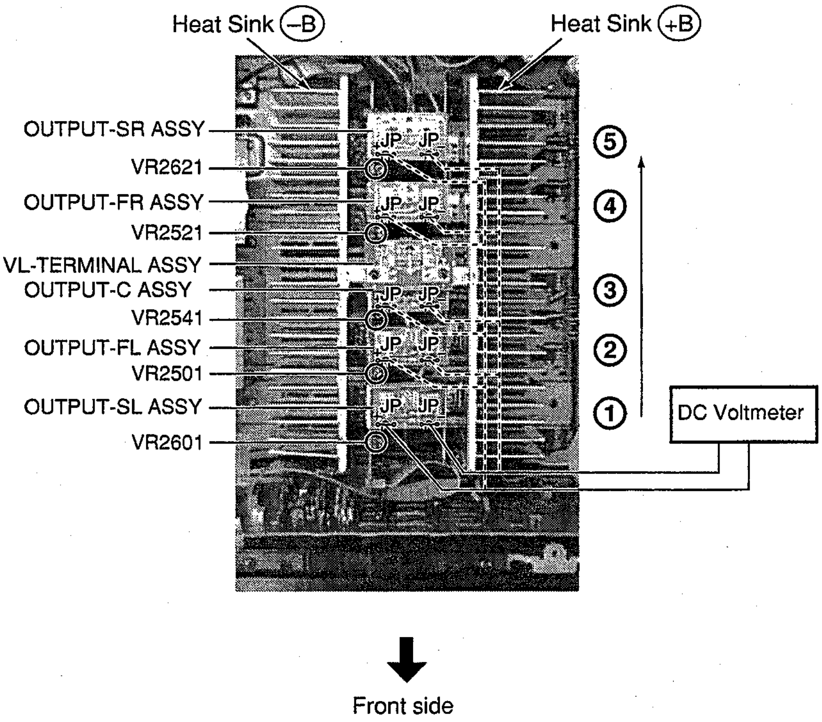
6. ADJUSTMENT

6.1 IDLE CURRENT ADJUSTMENT

- **CAUTION** : Heatsink's DC level is equal to +B or -B.
  Don't touch them or you will be electricary shocked.

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. (Turn counterclockwise.)
2. Set the power switch to ON.
3. Connect the DC voltmeter as shown below and adjust VRs in step No. order so that voltages become $16\text{mV}^{+4\text{mV}}_{-0\text{mV}}$.
4. Ages for seven minutes.
5. Readjust in step No. order so that the voltages become 11.5mV ± 1mV (10.5 to 12.5mV). Adjustment is completed.

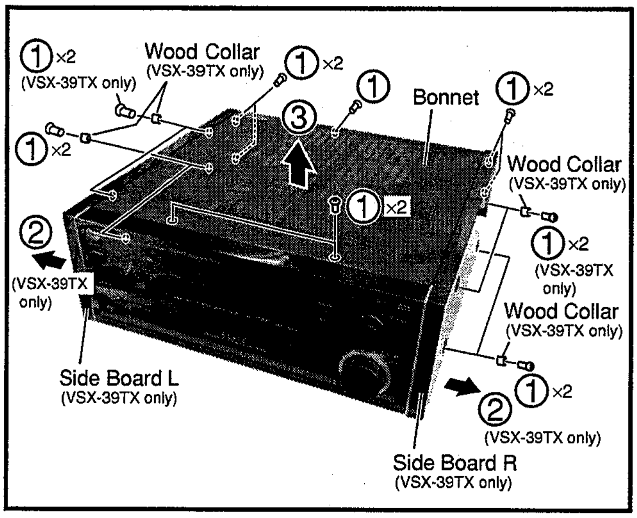
Step No.	Adjustment VR	Adjustment ch
1	VR2601	SL ch
2	VR2501	FL ch
3	VR2541	C ch
4	VR2521	FR ch
5	VR2621	SR ch


Heat Sink (-B)
Heat Sink (+B)
OUTPUT-SR ASSY
VR2621
OUTPUT-FR ASSY
VR2521
VL-TERMINAL ASSY
OUTPUT-C ASSY
VR2541
OUTPUT-FL ASSY
VR2501
OUTPUT-SL ASSY
VR2601
JP
⑤
④
③
②
①
DC Voltmeter
Front side

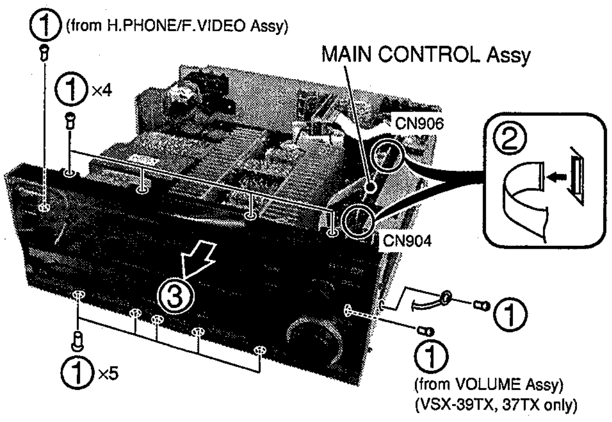
7. GENERAL INFORMATION

7.1 DISASSEMBLY

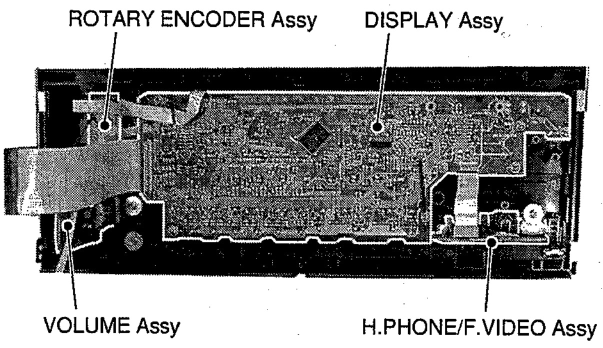
■Bonnet


①×2 (VSX-39TX only)
Wood Collar (VSX-39TX only)
①×2
①
Bonnet
①×2
③
①×2
Wood Collar (VSX-39TX only)
①×2
②
(VSX-39TX only)
①×2 (VSX-39TX only)
Wood Collar (VSX-39TX only)
Side Board L (VSX-39TX only)
②①×2
(VSX-39TX only)
Side Board R (VSX-39TX only)

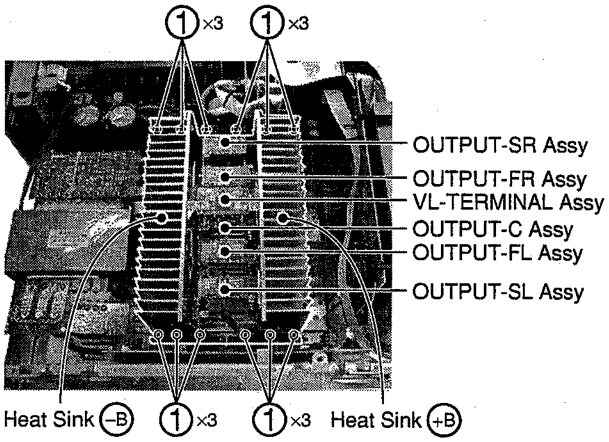
■Front Panel Section


① (from H.PHONE/F.VIDEO Assy)
MAIN CONTROL Assy
①×4
CN906
②
CN904
③
①
①×5
① (from VOLUME Assy) (VSX-39TX, 37TX only)

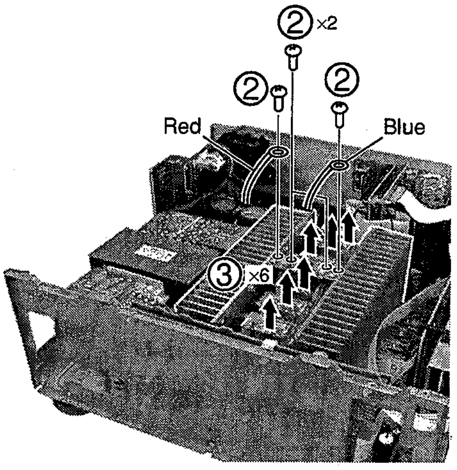
• PCB Location (Front Panel Section)

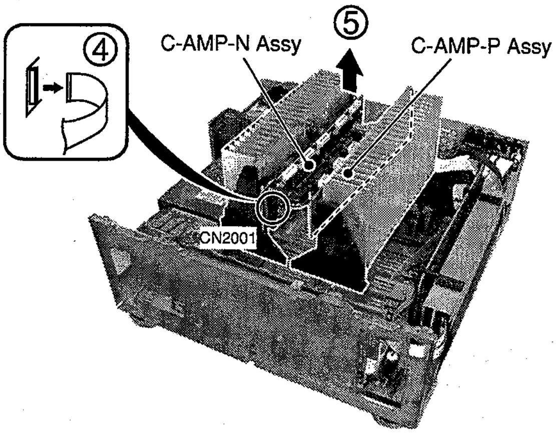

ROTARY ENCODER Assy
DISPLAY Assy
VOLUME Assy
H.PHONE/F.VIDEO Assy

■Heat Sink Section


①×3
①×3
OUTPUT-SR Assy
OUTPUT-FR Assy
VL-TERMINAL Assy
OUTPUT-C Assy
OUTPUT-FL Assy
OUTPUT-SL Assy
Heat Sink ⊖B
①×3
①×3
Heat Sink ⊕B

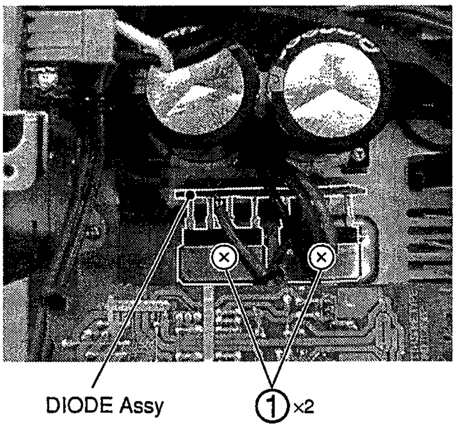
• **CAUTION** : Heatsink's DC level is equal to +B or - B. Don't touch them or you will be electricary shocked.


②×2
②
②
Red
Blue
③×6


④
C-AMP-N Assy
⑤
C-AMP-P Assy
CN2001

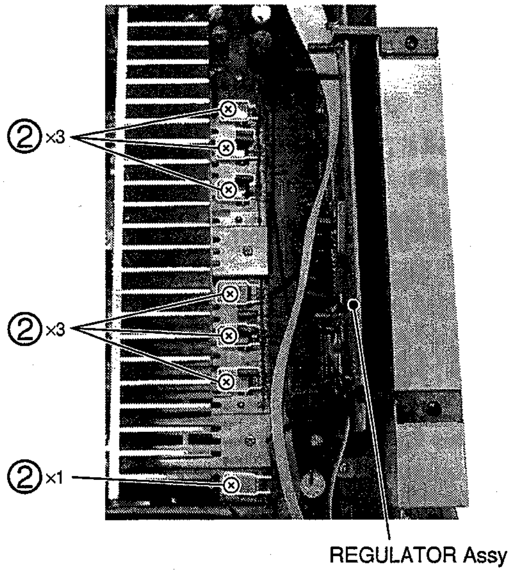
■ DIODE and REGULATOR Assemblies

• DIODE Assy


DIODE Assy
①×2

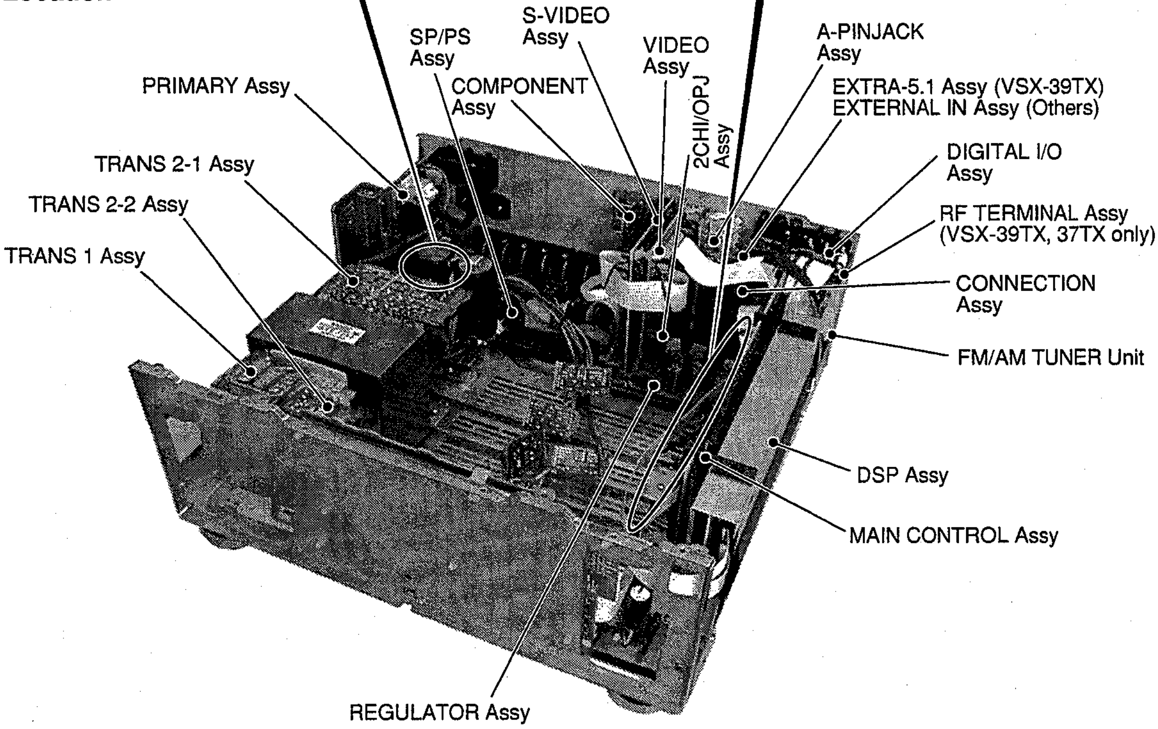
Replace the diode.

• REGULATOR Assy


②×3
②×3
②×1
REGULATOR Assy

Replace the Regulator IC.

• PCB Location


S-VIDEO Assy
SP/PS Assy
VIDEO Assy
A-PINJACK Assy
PRIMARY Assy
COMPONENT Assy
2CHI/OPJ Assy
EXTRA-5.1 Assy (VSX-39TX)
EXTERNAL IN Assy (Others)
TRANS 2-1 Assy
DIGITAL I/O Assy
TRANS 2-2 Assy
RF TERMINAL Assy (VSX-39TX, 37TX only)
TRANS 1 Assy
CONNECTION Assy
FM/AM TUNER Unit
DSP Assy
MAIN CONTROL Assy
REGULATOR Assy

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

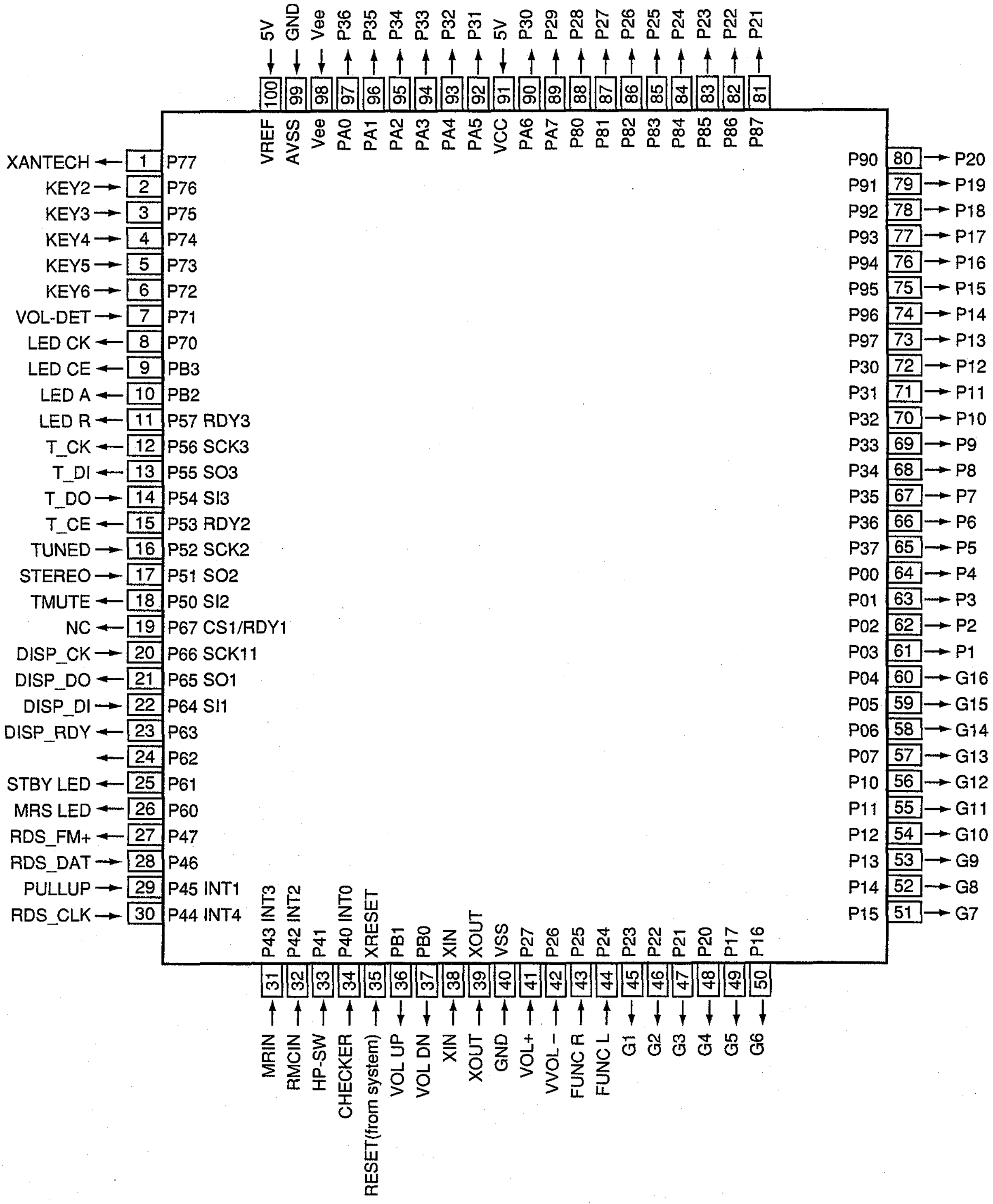
●List of IC

PD5595A, PD5589A

■ PD5595A (DISPLAY ASSY : IC7001)

- **Display Control IC**

● Pin Assignment (Top View)


XANTECH 1 P77
KEY2 2 P76
KEY3 3 P75
KEY4 4 P74
KEY5 5 P73
KEY6 6 P72
VOL-DET 7 P71
LED CK 8 P70
LED CE 9 PB3
LED A 10 PB2
LED R 11 P57 RDY3
T_CK 12 P56 SCK3
T_DI 13 P55 SO3
T_DO 14 P54 SI3
T_CE 15 P53 RDY2
TUNED 16 P52 SCK2
STEREO 17 P51 SO2
TMUTE 18 P50 SI2
NC 19 P67 CS1/RDY1
DISP_CK 20 P66 SCK11
DISP_DO 21 P65 SO1
DISP_DI 22 P64 SI1
DISP_RDY 23 P63
24 P62
STBY LED 25 P61
MRS LED 26 P60
RDS_FM+ 27 P47
RDS_DAT 28 P46
PULLUP 29 P45 INT1
RDS_CLK 30 P44 INT4
MRIN 31 P43 INT3
RMCIN 32 P42 INT2
HP-SW 33 P41
CHECKER 34 P40 INT0
RESET(from system) 35 XRESET
VOL UP 36 PB1
VOL DN 37 PB0
XIN 38 XIN
XOUT 39 XOUT
GND 40 VSS
VOL+ 41 P27
VVOL – 42 P26
FUNC R 43 P25
FUNC L 44 P24
G1 45 P23
G2 46 P22
G3 47 P21
G4 48 P20
G5 49 P17
G6 50 P16
P15 51 G7
P14 52 G8
P13 53 G9
P12 54 G10
P11 55 G11
P10 56 G12
P07 57 G13
P06 58 G14
P05 59 G15
P04 60 G16
P03 61 P1
P02 62 P2
P01 63 P3
P00 64 P4
P37 65 P5
P36 66 P6
P35 67 P7
P34 68 P8
P33 69 P9
P32 70 P10
P31 71 P11
P30 72 P12
P97 73 P13
P96 74 P14
P95 75 P15
P94 76 P16
P93 77 P17
P92 78 P18
P91 79 P19
P90 80 P20
P87 81 P21
P86 82 P22
P85 83 P23
P84 84 P24
P83 85 P25
P82 86 P26
P81 87 P27
P80 88 P28
PA7 89 P29
PA6 90 P30
VCC 91 5V
PA5 92 P31
PA4 93 P32
PA3 94 P33
PA2 95 P34
PA1 96 P35
PA0 97 P36
Vee 98 Vee
AVSS 99 GND
VREF 100 5V

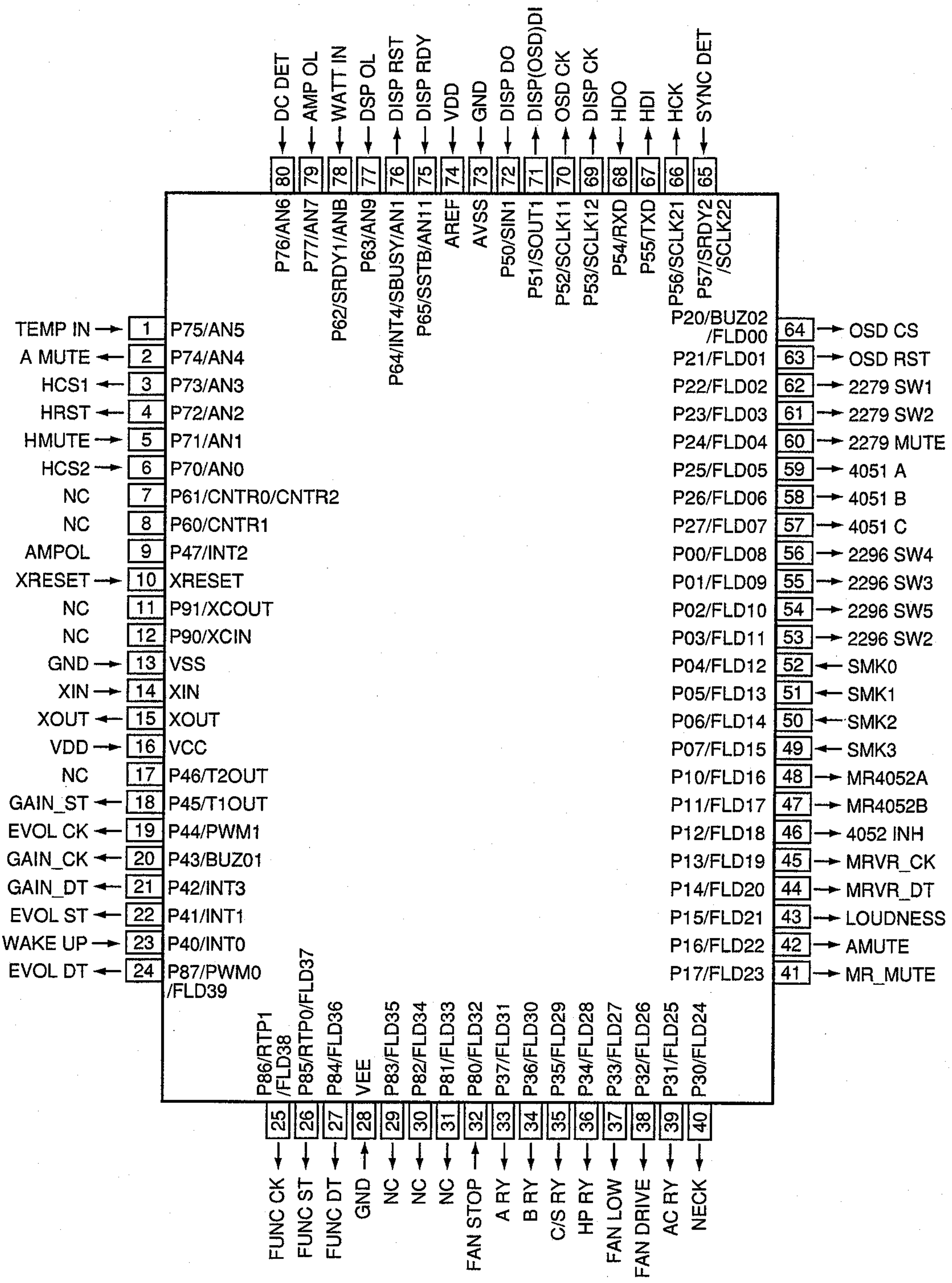
• Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	XANTECH	O	XANTECH ON/OFF	51	G7	O	Grid output 7
2	KEY 2	I	Key scan input 2	52	G8	O	Grid output 8
3	KEY 3	I	Key scan input 3	53	G9	O	Grid output 9
4	KEY 4	I	Key scan input 4	54	G10	O	Grid output 10
5	KEY 5	I	Key scan input 5	55	G11	O	Grid output 11
6	KEY 6	I	Key scan input 6	56	G12	O	Grid output 12
7	VOL-DET	I	Detection of volume position	57	G13	O	Grid output 13
8	LED CKL	O	Clock for IC7071 M66311	58	G14	O	Grid output 14
9	LED OE	O	Output enable for IC7071 M66311	59	G15	O	Grid output 15
10	LED A	O	Data for IC7071 M66311	60	G16	O	Grid output 16
11	LED R	O	Reset for IC7071 M66311	61	S1	O	Segment output 1
12	T-CK	O	Clock for tuner module	62	S2	O	Segment output 2
13	T-DI	O	Data for tuner module	63	S3	O	Segment output 3
14	T-DO	I	Data from tuner module	64	S4	O	Segment output 4
15	T-CE	O	Chip enable for tuner module	65	S5	O	Segment output 5
16	TUNED	I	Tuned data from tuner module	66	S6	O	Segment output 6
17	STEREO	I	Stereo tuned data from tuner module	67	S7	O	Segment output 7
18	T-MUTE	O	Tuner mute ON/OFF	68	S8	O	Segment output 8
19	NC	O	Open	69	S9	O	Segment output 9
20	DISP CK	I	Clock from IC901 MAIN U-COM	70	S10	O	Segment output 10
21	DISP DO	O	Data for IC901 MAIN U-COM	71	S11	O	Segment output 11
22	DISP DI	I	Data from IC901 MAIN U-COM	72	S12	O	Segment output 12
23	DISP RDY	O	Data request for IC901 MAIN U-COM	73	S13	O	Segment output 13
24	NC	–	Open	74	S14	O	Segment output 14
25	STBY LED	O	Standby LED	75	S15	O	Segment output 15
26	MRS LED	O	Sub room LED (MR&S model), EON LED (RDS model)	76	S16	O	Segment output 16
27	RDS FM+	–	VDD for IC7401 BU1923 (RDS model only)	77	S17	O	Segment output 17
28	RDS DAT	O	Data for IC7401 BU1923 (RDS model only)	78	S18	O	Segment output 18
29	NC	I	(pull-up)	79	S19	O	Segment output 19
30	RDS CLK	I	Clock for IC7401 BU1923 (RDS model only)	80	S20	O	Segment output 20
31	MR IN	I	Sub room remote control (MR&S, MR model only)	81	S21	O	Segment output 21
32	RMC IN	I	Remote control	82	S22	O	Segment output 22
33	HP-SW	I	Headphone connect detect	83	S23	O	Segment output 23
34	NC	I	For unit check test mode detection	84	S24	O	Segment output 24
35	RESET	I	Reset	85	S25	O	Segment output 25
36	VOL/UP	O	Control for VOIL UP	86	S26	O	Segment output 26
37	VOL/DN	O	Control for VOL DOWN	87	S27	O	Segment output 27
38	XIN	–	Connect a 7.2MHz oscillator	88	S28	O	Segment output 28
39	XOUT	–		89	S29	O	Segment output 29
40	VSS	–	GND	90	S30	O	Segment output 30
41	VOL+	I	Rotary encoder signal +	91	VCC	–	Power supply +5V
42	VOL-	I	Rotary encoder signal -	92	S31	O	Segment output 31
43	FUNC/R	I	Rotary encoder signal R	93	S32	O	Segment output 32
44	FUNC/L	I	Rotary encoder signal L	94	S33	O	Segment output 33
45	G1	O	Grid output 1	95	S34	O	Segment output 34
46	G2	O	Grid output 2	96	S35	O	Segment output 35
47	G3	O	Grid output 3	97	S36	O	Segment output 36
48	G4	O	Grid output 4	98	VEE	–	Power supply 5V
49	G5	O	Grid output 5	99	AVSS	–	GND
50	G6	O	Grid output 6	100	VREF	–	Reference voltage 5V

■ PD5589A (MAIN CONTROL ASSY : IC901)

- **Main Control IC**

● **Pin Assignment (Top View)**


DC DET 80 P76/AN6
AMP OL 79 P77/AN7
WATT IN 78 P62/SRDY1/ANB
DSP OL 77 P63/AN9
DISP RST 76 P64/INT4/SBUSY/AN1
DISP RDY 75 P65/SSTB/AN11
VDD 74 AREF
GND 73 AVSS
DISP DO 72 P50/SIN1
DISP(OSD)DI 71 P51/SOUT1
OSD CK 70 P52/SCLK11
DISP CK 69 P53/SCLK12
HDO 68 P54/RXD
HDI 67 P55/TXD
HCK 66 P56/SCLK21
SYNC DET 65 P57/SRDY2 /SCLK22
TEMP IN 1 P75/AN5
A MUTE 2 P74/AN4
HCS1 3 P73/AN3
HRST 4 P72/AN2
HMUTE 5 P71/AN1
HCS2 6 P70/AN0
NC 7 P61/CNTR0/CNTR2
NC 8 P60/CNTR1
AMPOL 9 P47/INT2
XRESET 10 XRESET
NC 11 P91/XCOUT
NC 12 P90/XCIN
GND 13 VSS
XIN 14 XIN
XOUT 15 XOUT
VDD 16 VCC
NC 17 P46/T2OUT
GAIN_ST 18 P45/T1OUT
EVOL CK 19 P44/PWM1
GAIN_CK 20 P43/BUZ01
GAIN_DT 21 P42/INT3
EVOL ST 22 P41/INT1
WAKE UP 23 P40/INT0
EVOL DT 24 P87/PWM0 /FLD39
P20/BUZ02 /FLD00 64 OSD CS
P21/FLD01 63 OSD RST
P22/FLD02 62 2279 SW1
P23/FLD03 61 2279 SW2
P24/FLD04 60 2279 MUTE
P25/FLD05 59 4051 A
P26/FLD06 58 4051 B
P27/FLD07 57 4051 C
P00/FLD08 56 2296 SW4
P01/FLD09 55 2296 SW3
P02/FLD10 54 2296 SW5
P03/FLD11 53 2296 SW2
P04/FLD12 52 SMK0
P05/FLD13 51 SMK1
P06/FLD14 50 SMK2
P07/FLD15 49 SMK3
P10/FLD16 48 MR4052A
P11/FLD17 47 MR4052B
P12/FLD18 46 4052 INH
P13/FLD19 45 MRVR_CK
P14/FLD20 44 MRVR_DT
P15/FLD21 43 LOUDNESS
P16/FLD22 42 AMUTE
P17/FLD23 41 MR_MUTE
P86/RTP1 /FLD38 25 FUNC CK
P85/RTP0/FLD37 26 FUNC ST
P84/FLD36 27 FUNC DT
VEE 28 GND
P83/FLD35 29 NC
P82/FLD34 30 NC
P81/FLD33 31 NC
P80/FLD32 32 FAN STOP
P37/FLD31 33 A RY
P36/FLD30 34 B RY
P35/FLD29 35 C/S RY
P34/FLD28 36 HP RY
P33/FLD27 37 FAN LOW
P32/FLD26 38 FAN DRIVE
P31/FLD25 39 AC RY
P30/FLD24 40 NECK

• Pin Function

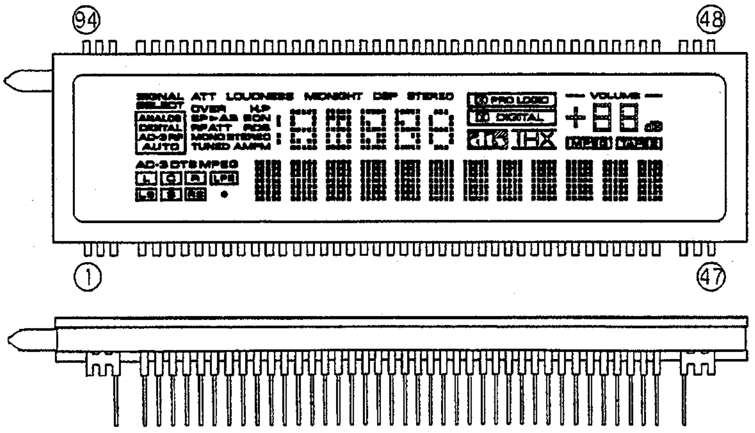
No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	TEMP IN	I/O	O/open (KU,J,SD), I/Fan temperature A/D input (other)	41	MR MUTE	O	Audio mute ON/OFF for sub room (MR&S, MR model only)
2	A MUTE	O	Audio mute ON/OFF	42	A MUTE2	O	Audio preout mute ON/OFF
3	DSP CS1	O	Chip select for IC9501 DSP U-COM	43	LOUD	O	Loudness ON/OFF
4	DSP RST	O	Reset for IC9501 DSP U-COM	44	MR-V DT	O	Data for IC110 M62429FP control (MR&S model only)
5	DSP MUTE	I	Mute request from IC9501 DSP U-COM	45	MR-V CK	O	Clock for IC110 M62429FP control (MR&S model only)
6	DSP CS2	I	Chip select from IC9501 DSP U-COM	46	4052 INH	O	Inhibit for IC102 BU4052BCF control (MR&S model only)
7	NC	O	Open	47	4052 B	O	Control for IC102 BU4052BCF (MR&S model only)
8	NC	O	Open	48	4052 A		
9	AMPOL	I	Amp Overload detect	49	SIMUKE 3	I	SIMUKE (pull-up or down)
10	RESET	I	Reset	50	SIMUKE 2		
11	NC	O	Open	51	SIMUKE 1		
12	NC	O	Open	52	SIMUKE 0		
13	GND	–	GND	53	2296-2	O	Control for IC701, 801, 802 NJM2296M
14	XIN	I	Connect a 4.19MHz oscillator	54	2296-5		
15	XOUT	O		55	2296-3		
16	VDD	–	Power supply +5V	56	2296-4		
17	NC	O	Open	57	4051-C	O	Control for IC831 BU4051BCF
18	ST3	O	Strobe for IC107 TC9163F control	58	4051-B		
19	CK2	O	Clock for IC108 TC9482N control	59	4051-A		
20	CK3	O	Clock for IC107 TC9163F control	60	2279-M	O	Control for IC731 NJM2279M (MR&S model only)
21	DT3	O	Data for IC107 TC9163F control	61	2279-2		
22	ST2	O	Strobe for IC108 TC9482N control	62	2279-1		
23	W.UP	I	AC pulse input	63	OSD RST	O	Reset for IC752 LC74782M-9011
24	DT2	O	Data for IC108 TC9482N control	64	OSD CS	O	Chip select for IC752 LC74782M-9011
25	CK1	O	Clock for IC101 TC9274N and IC104 TC9163F control	65	SYNC DET	I	Detection of synchronizing signal
26	ST1	O	Strobe for IC101 TC9274N and IC104 TC9163F control	66	DSP HCK	O	Clock for IC9501 DSP U-COM
27	DT1	O	Data for IC101 TC9274N and IC104 TC9163F control	67	DSP HDI	O	Data for IC9501 DSP U-COM
28	GND	–	GND	68	DSP HDO	I	Data from IC9501 DSP U-COM
29	NC	O	Open	69	DISP CK	O	Clock for IC7001 DISP U-COM
30	NC	O	Open	70	OSD CK	O	Clock for IC752 LC74782M-9011
31	NC	O	Open	71	DISP DI	O	Data for IC7001 DISP U-COM
32	FAN STOP	I/O	O/Open (KU,J,SD), I/Fan stop detecter (other)	72	DISP DO	I	Data from IC7001 DISP U-COM
33	A RY	O	SP A relay ON/OFF	73	GND	–	GND
34	B RY	O	SP B relay ON/OFF	74	VDD	–	Power supply +5V
35	C/S RY	O	SP C/S relay ON/OFF	75	DISP RDY	I	Data request from IC7001 DISP U-COM
36	HP RY	O	Headphone relay ON/OFF	76	DISP RST	O	Reset for IC7001 DISP U-COM
37	FAN LOW	O	Open (KU,J,SD), Fan low (other)	77	DSP OL	I	DSP overload detect, A/D input
38	FAN DRIVE	O	Open (KU,J,SD), Fan drive (other)	78	WATT IN	I/O	O/Open (KU,J,SD), I/Fan wattage input, A/D input (other)
39	AC RY	O	AC relay ON/OFF	79	AMP OL	I	Amp overload detect, A/D input
40	NECK	O	Neck ON/OFF (24,26,908,938 only)	80	DC DET	I	Detection of amp power error, A/D input

7.2.2 DISPLAY

■ AAV7063 (DISPLAY ASSY :V7001)

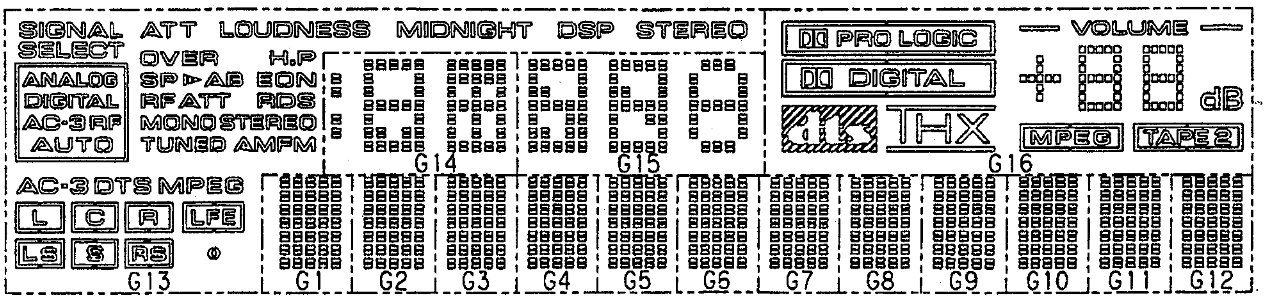
- FL Indicator Tube

- **Pin Assignment**



94
48
1
47
SIGNAL SELECT ATT LOUDNESS MIDNIGHT DSP STEREO
PRO LOGIC
DIGITAL
VOLUME
THX
MPEG
TAPE 2
AC-3 DTS MPEG

- **Grid Assignment**



SIGNAL SELECT
ATT
LOUDNESS
MIDNIGHT
DSP
STEREO
OVER
H.P
SP ▷ AB
EON
RF ATT
RDS
MONO STEREO
TUNED AM FM
ANALOG
DIGITAL
AC-3 RF
AUTO
PRO LOGIC
DIGITAL
THX
— VOLUME —
dB
MPEG
TAPE 2
AC-3 DTS MPEG
L
C
R
LFE
LS
S
RS
G13
G1
G2
G3
G4
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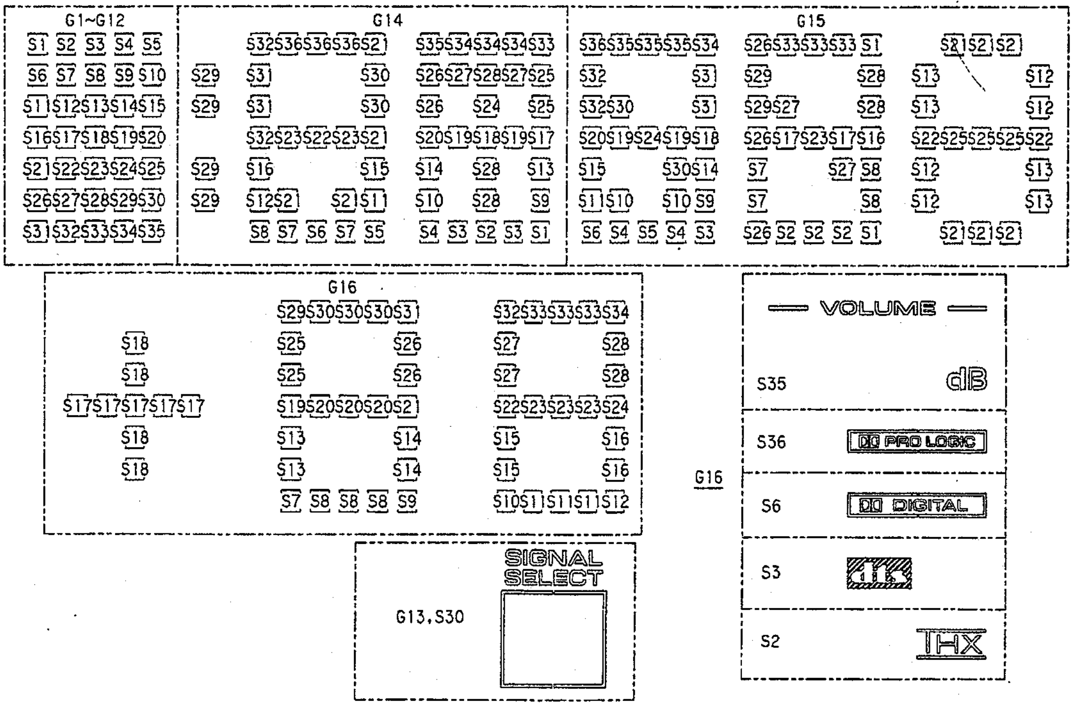
G10
G11
G12
G14
G15
G16



G1~G12
S1 S2 S3 S4 S5
S6 S7 S8 S9 S10
S11 S12 S13 S14 S15
S16 S17 S18 S19 S20
S21 S22 S23 S24 S25
S26 S27 S28 S29 S30
S31 S32 S33 S34 S35
G14
S32 S36 S36 S36 S21
S35 S34 S34 S34 S33
S29 S31 S30
S26 S27 S28 S27 S25
S29 S31 S30
S26 S24 S25
S32 S23 S22 S23 S21
S20 S19 S18 S19 S17
S29 S16 S15
S14 S28 S13
S29 S12 S21 S21 S11
S10 S28 S9
S8 S7 S6 S7 S5
S4 S3 S2 S3 S1
G15
S36 S35 S35 S35 S34
S26 S33 S33 S33 S1
S21 S21 S21
S32 S31
S29 S28
S13 S12
S32 S30 S31
S29 S27 S28
S13 S12
S20 S19 S24 S19 S18
S26 S17 S23 S17 S16
S22 S25 S25 S25 S22
S15 S30 S14
S7 S27 S8
S12 S13
S11 S10 S10 S9
S7 S8
S12 S13
S6 S4 S5 S4 S3
S26 S2 S2 S2 S1
S21 S21 S21
G16
S29 S30 S30 S30 S31
S32 S33 S33 S33 S34
S18
S25 S26
S27 S28
S18
S25 S26
S27 S28
S17 S17 S17 S17 S17
S19 S20 S20 S20 S21
S22 S23 S23 S23 S24
S18
S13 S14
S15 S16
S18
S13 S14
S15 S16
S7 S8 S8 S8 S9
S10 S11 S11 S11 S12
SIGNAL SELECT
G13,S30
— VOLUME —
S35 dB
S36 PRO LOGIC
G16
S6 DIGITAL
S3
S2 THX

• Anode and Grid Connection

	G1~G12	G13	G14	G15	G16
S1	S1		S1	S1	
S2	S2	FM	S2	S2	S2
S3	S3	AM	S3	S3	S3
S4	S4	MPEG	S4	S4	TAPE2
S5	S5	LFE	S5	S5	MPEG
S6	S6	STEREO	S6	S6	S6
S7	S7	TUNED	S7	S7	S7
S8	S8	MONO	S8	S8	S8
S9	S9	R	S9	S9	S9
S10	S10	C	S10	S10	S10
S11	S11	L	S11	S11	S11
S12	S12	RDS	S12	S12	S12

	G1~G12	G13	G14	G15	G16
S13	S13	DTS	S13	S13	S13
S14	S14	AC-3 (DTS)	S14	S14	S14
S15	S15	RFATT	S15	S15	S15
S16	S16	EON	S16	S16	S16
S17	S17	(▷A)B	S17	S17	S17
S18	S18	(▷)A(B)	S18	S18	S18
S19	S19	◎	S19	S19	S19
S20	S20	Ls	S20	S20	S20
S21	S21	S	S21	S21	S21
S22	S22	Rs	S22	S22	S22
S23	S23	SP▷	S23	S23	S23
S24	S24	OVER	S24	S24	S24

	G1~G12	G13	G14	G15	G16
S25	S25	H.P	S25	S25	S25
S26	S26	AUTO	S26	S26	S26
S27	S27	AC-3RF	S27	S27	S27
S28	S28	DIGITAL	S28	S28	S28
S29	S29	ANALOG	S29	S29	S29
S30	S30	S30	S30	S30	S30
S31	S31	ATT	S31	S31	S31
S32	S32	LOUDNESS	S32	S32	S32
S33	S33	MIDNIGHT	S33	S33	S33
S34	S34	DSP	S34	S34	S34
S35	S35	(DSP) STEREO	S35	S35	S35
S36			S36	S36	S36

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assignment	NL	NL	F1	NP	D	IC	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Assignment	NL	NL	S36	S35	S34	S33	S32	S31	S30	S29	NL	NL	NL	S28	S27	S26	S25	S24	H	NP	F2	NL	NL

Pin No.	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
Assignment	NL	NL	NL	NP	S23	S22	S21	S20	S19	S18	S17	S16	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4

Pin.No.	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
Assignment	S3	S2	S1	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	NP	NL	NL	NL

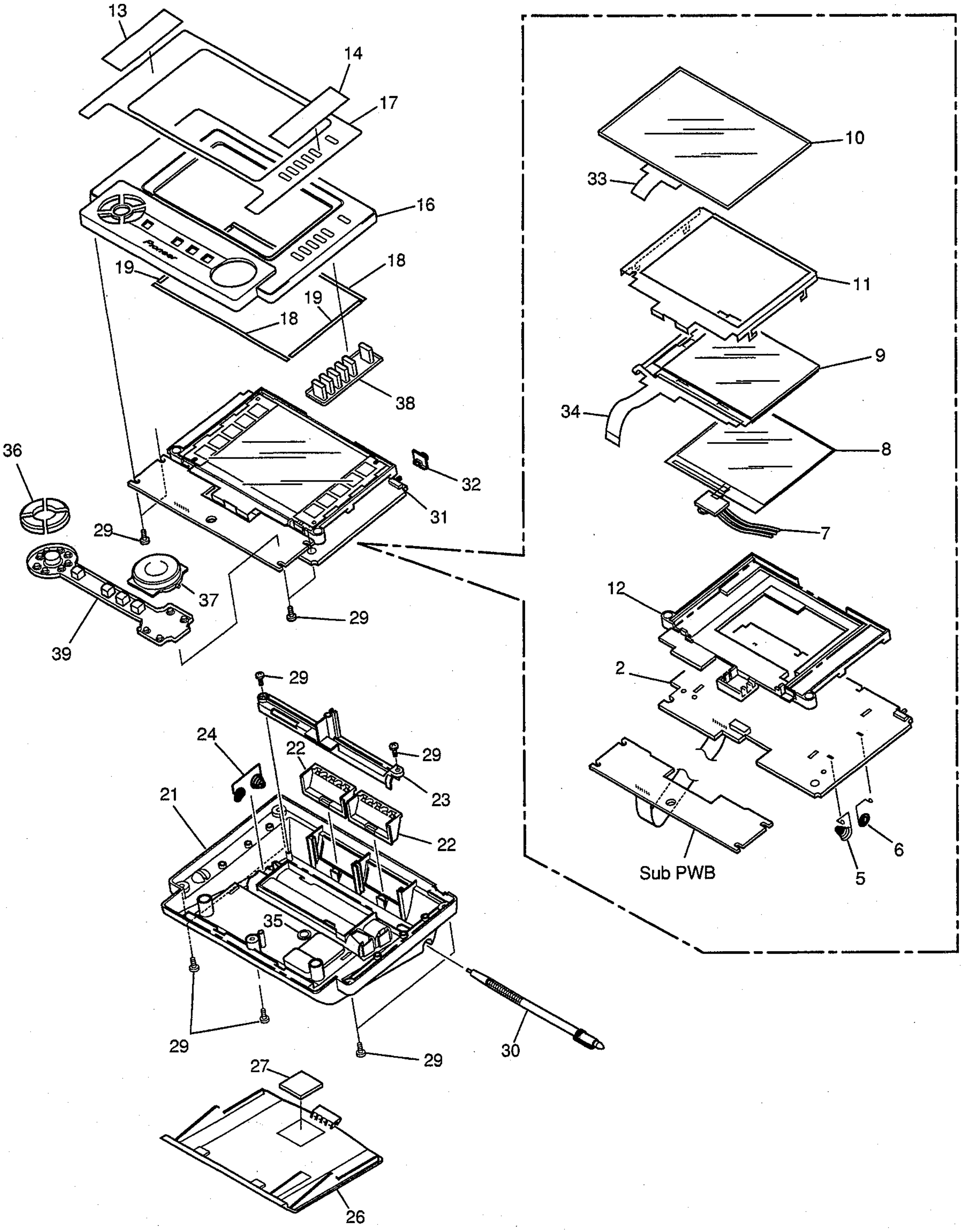
F1, F2 : Filament G1 to G16 : Grid S1 to S36 : Anode D : External connect to F1 NP: No Pin NL : Lead
H : Power supply grid usually (ec level = Apply Typ 35.0 VDC) IC : Internal connection

7.3 REMOTE CONTROL UNIT

7.3.1 AXD7254 (for VSX-39TX)

7.3.1.1 EXPLODED VIEWS AND PARTS LIST

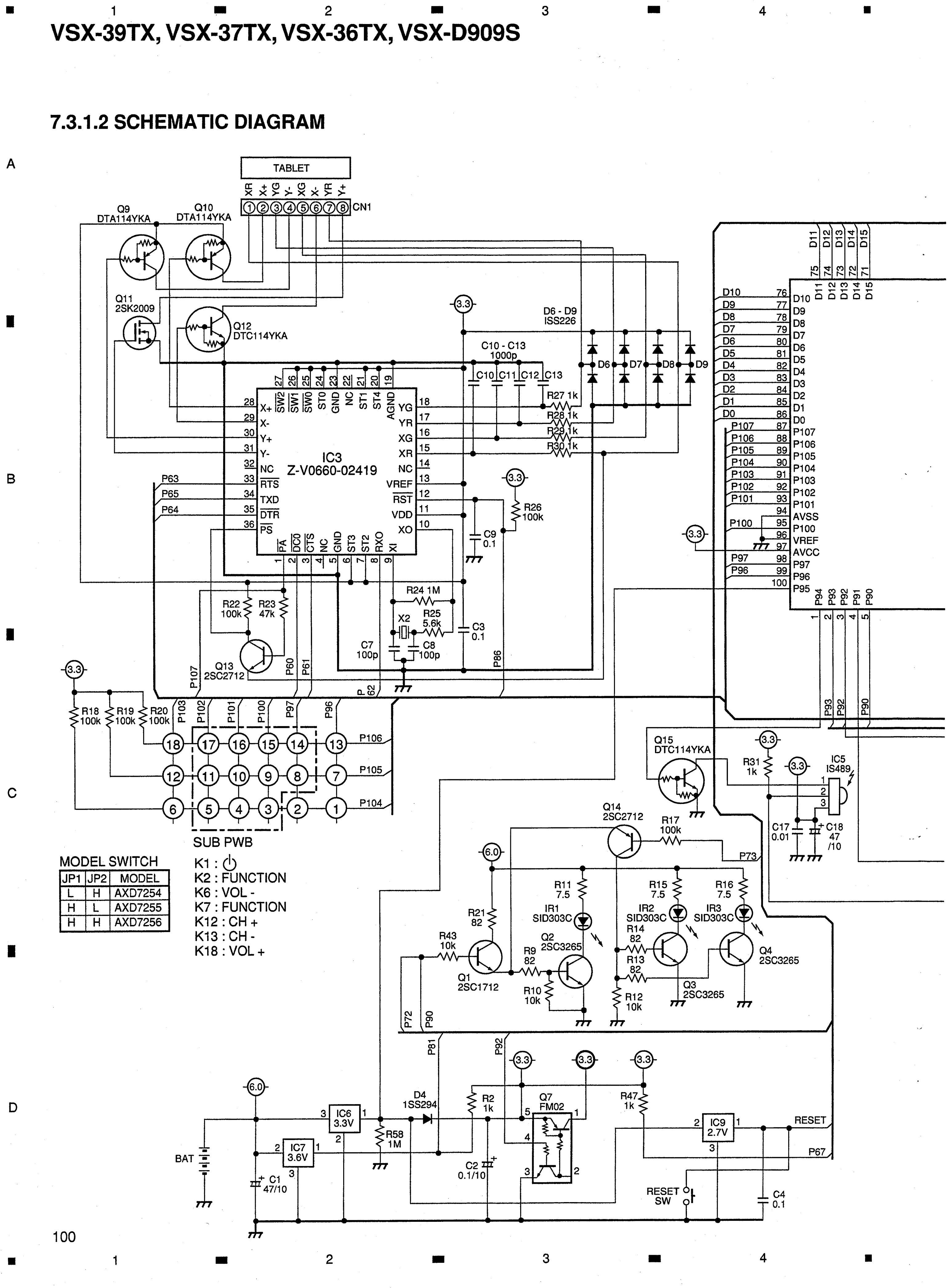
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*


13
14
17
10
33
16
18
11
19
19
18
9
38
34
8
36
32
31
7
29
37
29
12
39
29
2
24
29
22
23
21
22
6
Sub PWB
5
35
29
29
29
30
27
26

• PARTS LIST

Mark	No.	Description	Part No.
	1	• • • • •	
	2	PCB Assy	AZC7298
	3	• • • • •	
	4	• • • • •	
	5	Terminal A	411RRC15801R
	6	Terminal B	411RRC15901R
	7	Jumper Cable	E–AA1446–001
	8	EL Module	AZC7294
	9	LCD Module	AZC7295
	10	Touch Panel	NTX01005701R
	11	Frame	501RRC01901R
	12	LCD Holder	AZN7787
	13	Seal A	AZA7367
	14	Seal B	AZA7368
	15	• • • • •	
	16	Case A	AZN7840
	17	Name Plate	AZA7393
	18	Cushion A	701RRC04801R
	19	Cushion B	701RRC04901R
	20	• • • • •	
	21	Case B	AZN7784
	22	Filter	AZA7343
	23	Pen Holder	AZN7786
	24	Terminal	413RRC11201R
	25	• • • • •	
	26	Battery Cover	AZN7785
	27	Cushion C	701RRC03501R
	28	• • • • •	
	29	Screw	AZB7144
	30	Touch Pen	E–AA1445–001
	31	Slide Switch	JSB1220–0111
	32	Slide Knob	AZA7347
	33	FPC Connector	CFP5519–0101
	34	FPC Connector	E-CP0535–008
	35	MT Switch	JPM1030–0801
	36	Key Top A	AZA7345
	37	Key Top B	AZA7346
	38	Rubber Sheet A	AZA7348
	39	Rubber Sheet B	AZA7349

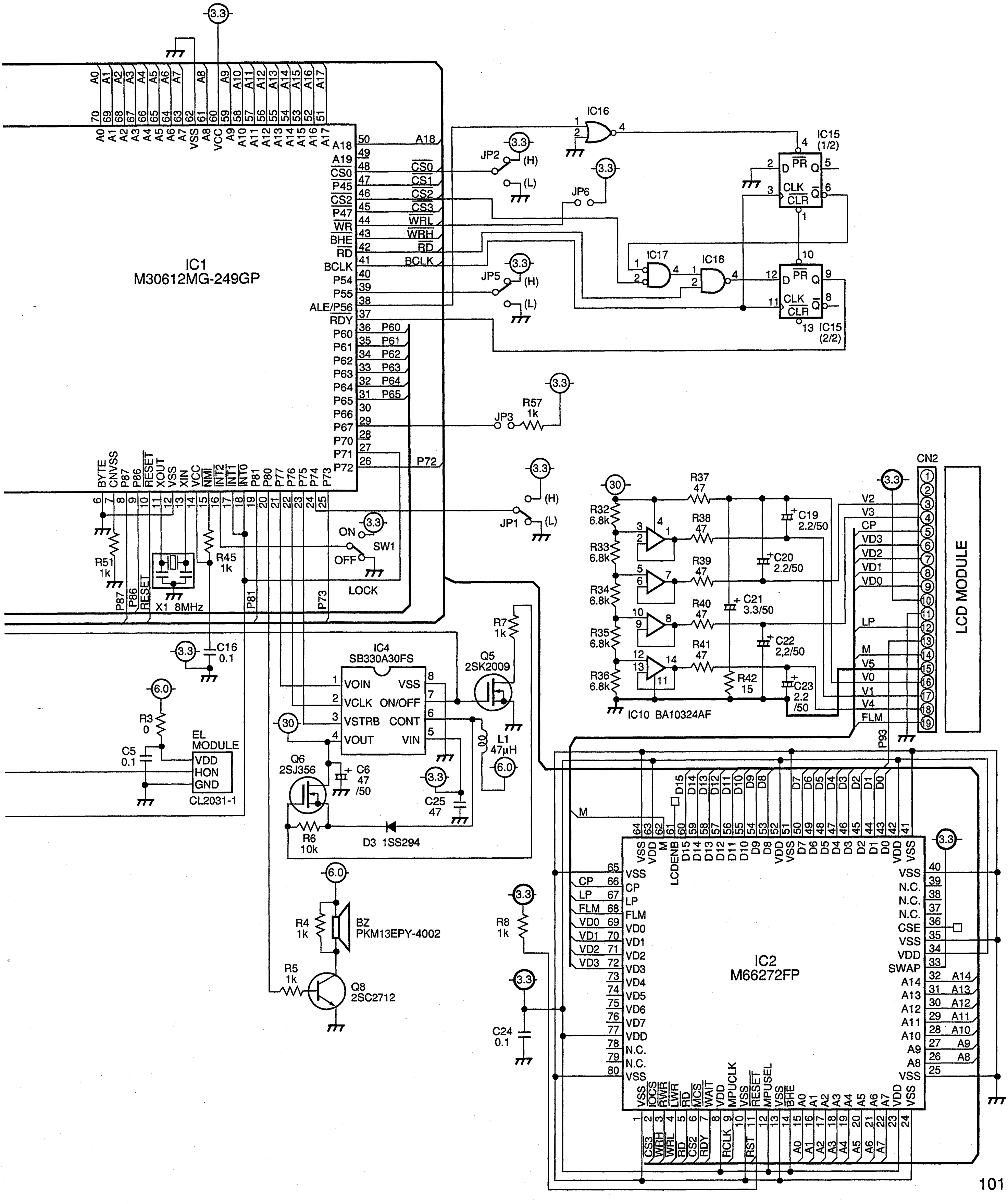
7.3.1.2 SCHEMATIC DIAGRAM


1
2
3
4
A
B
C
D
TABLET
XR X+ YG Y- XG X- YR Y+
CN1
Q9 DTA114YKA
Q10 DTA114YKA
Q11 2SK2009
Q12 DTC114YKA
3.3
D6 - D9 ISS226
C10 - C13 1000p
C10 C11 C12 C13
D6 D7 D8 D9
R27 1k
R28 1k
R29 1k
R30 1k
IC3
Z-V0660-02419
X+ X- Y+ Y- NC RTS TXD DTR PS
SW2 SW1 SW0 ST0 GND NC ST1 ST4 AGND
YG YR XG XR NC VREF RST VDD XO
PA DC0 CTS NC GND ST3 ST2 RXO XI
P63 P65 P64
R26 100k
C9 0.1
R24 1M
R25 5.6k
X2
C7 100p
C8 100p
C3 0.1
R22 100k
R23 47k
Q13 2SC2712
P107 P60 P61 P86 P62
R18 100k
R19 100k
R20 100k
P103 P102 P101 P100 P97 P96
P106 P105 P104
SUB PWB
D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
D11 D12 D13 D14 D15
P107 P106 P105 P104 P103 P102 P101 P100
AVSS VREF AVCC P97 P96 P95
P94 P93 P92 P91 P90
Q15 DTC114YKA
R31 1k
IC5 IS489
C17 0.01
C18 47 /10
Q14 2SC2712
R17 100k
P73
6.0
R11 7.5
R15 7.5
R16 7.5
IR1 SID303C
IR2 SID303C
IR3 SID303C
R21 82
R43 10k
Q1 2SC1712
R9 82
Q2 2SC3265
R10 10k
R14 82
R13 82
R12 10k
Q3 2SC3265
Q4 2SC3265
P72 P90 P81 P92
BAT
IC6 3.3V
IC7 3.6V
C1 47/10
D4 1SS294
R58 1M
R2 1k
C2 0.1/10
Q7 FM02
R47 1k
IC9 2.7V
RESET
P67
RESET SW
C4 0.1

MODEL SWITCH

JP1	JP2	MODEL
L	H	AXD7254
H	L	AXD7255
H	H	AXD7256

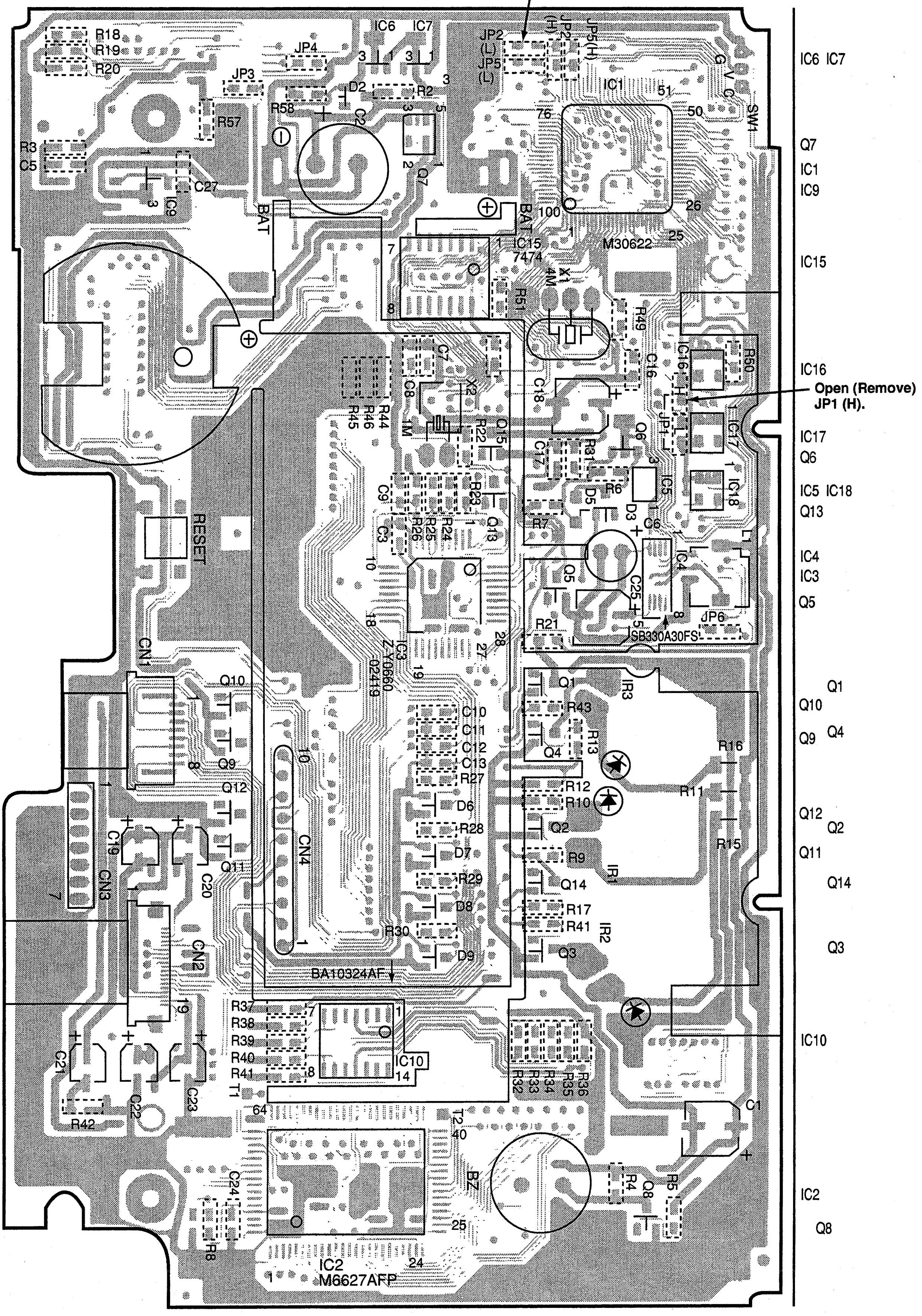
K1 : ⏻
K2 : FUNCTION
K6 : VOL -
K7 : FUNCTION
K12 : CH +
K13 : CH -
K18 : VOL +


A
B
C
D
IC1
M30612MG-249GP
IC2
M66272FP
IC4
SB330A30FS
VOIN
VCLK
VSTRB
VOUT
VSS
ON/OFF
CONT
VIN
IC10 BA10324AF
IC15 (1/2)
IC15 (2/2)
IC16
IC17
IC18
Q5
2SK2009
Q6
2SJ356
Q8
2SC2712
D3 1SS294
L1
47µH
BZ
PKM13EPY-4002
EL MODULE
VDD
HON
GND
CL2031-1
LCD MODULE
CN2
X1 8MHz
SW1
ON
OFF
LOCK
JP1
JP2
JP3
JP5
JP6
(H)
(L)
R3 0
R4 1k
R5 1k
R6 10k
R7 1k
R8 1k
R32 6.8k
R33 6.8k
R34 6.8k
R35 6.8k
R36 6.8k
R37 47
R38 47
R39 47
R40 47
R41 47
R42 15
R45 1k
R51 1k
R57 1k
C5 0.1
C6 47 /50
C16 0.1
C19 2.2/50
C20 2.2/50
C21 3.3/50
C22 2,2/50
C23 2.2 /50
C24 0.1
C25 47
3.3
6.0
30
A18
A19
CS0
CS1
CS2
CS3
P45
P47
WR
WRL
WRH
BHE
RD
BCLK
P54
P55
ALE/P56
RDY
P60
P61
P62
P63
P64
P65
P66
P67
P70
P71
P72
P73
P74
P75
P76
P77
P80
P81
P86
P87
BYTE
CNVSS
RESET
XOUT
XIN
VCC
NMI
INT2
INT1
INT0
D
PR
CLK
CLR
Q
V2
V3
CP
VD3
VD2
VD1
VD0
LP
M
V5
V0
V1
V4
FLM
P93
LCDENB
CSE
SWAP
N.C.
IOCS
RWR
LWR
MCS
WAIT
MPUCLK
MPUSEL
RCLK
RST
VD4
VD5
VD6
VD7

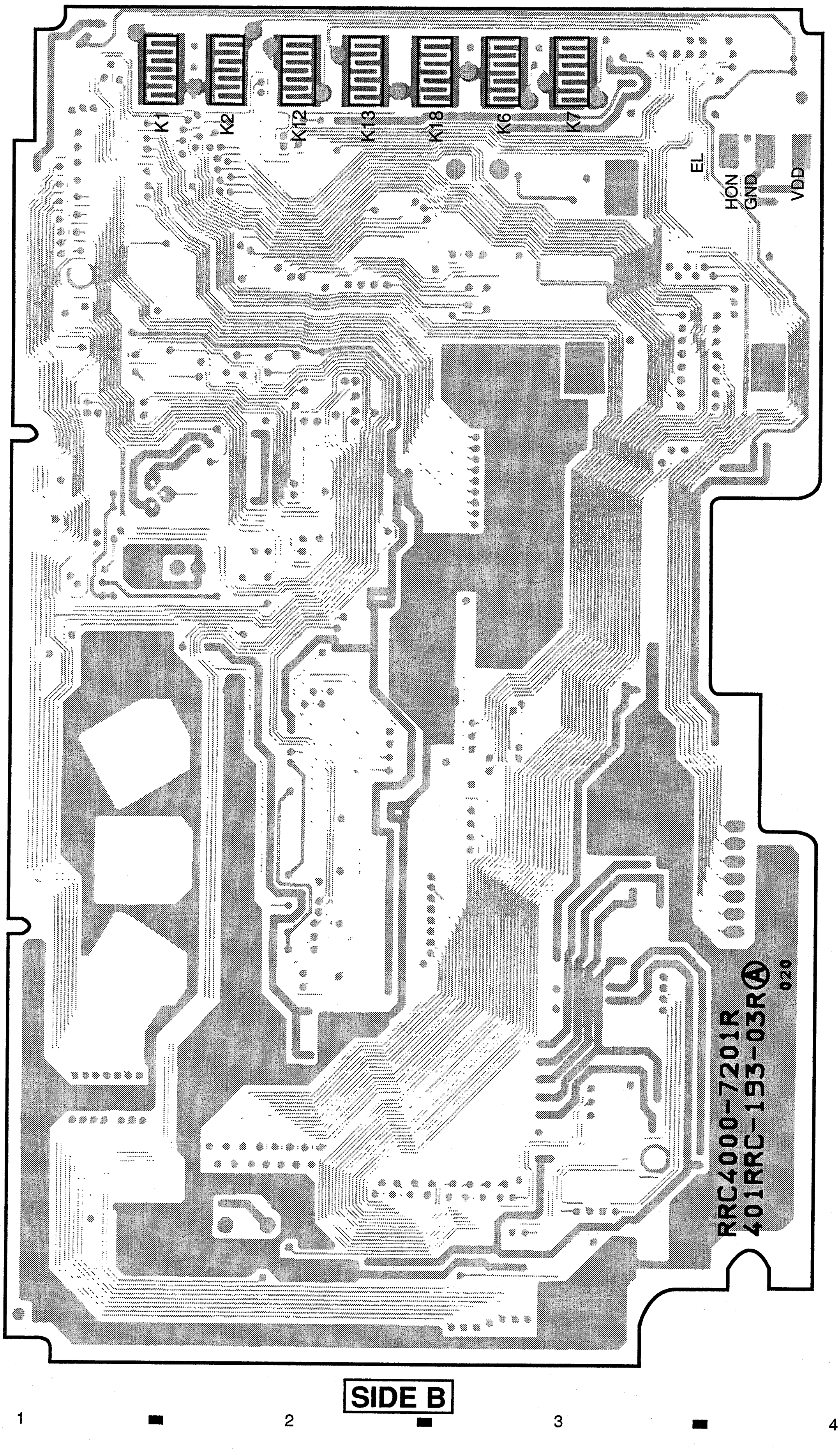
7.3.1.3 PCB DIAGRAM

Open (Remove) JP2 (L).

Open (Remove) JP1 (H).


A
B
C
D
R18
R19
R20
JP3
JP4
R57
R58
R3
C5
C27
IC9
IC6
IC7
D2
R2
C2
Q7
BAT
JP2 (L)
JP5 (L)
JP2 (H)
JP5 (H)
IC1
M30622
SW1
G V C
51
50
76
100
26
25
IC15
7474
X1
4M
R51
R49
C16
IC16
R50
JP1
IC17
Q6
R31
IC5
IC18
R6
D5
D3
C6
L1
C18
C17
R7
Q5
C25
IC4
SB330A30FS
JP6
R21
C7
C8
X2
1M
R44
R45
R46
R22
Q15
C9
R23
Q13
C3
R24
R25
R26
IC3
Z-Y0660
02419
RESET
CN1
Q10
Q9
Q12
Q11
C19
C20
CN3
CN2
CN4
C10
C11
C12
C13
R27
D6
R28
D7
R29
D8
R30
D9
BA10324AF
Q1
IR3
R43
R13
Q4
R16
R12
R10
R11
Q2
R15
R9
IR1
Q14
R17
R41
IR2
Q3
R37
R38
R39
R40
R41
T1
IC10
R32
R33
R34
R35
R36
C21
C22
C23
R42
C24
R8
IC2
M6627AFP
T2
BZ
R4
Q8
R5
C1
IC6 IC7
Q7
IC1
IC9
IC15
IC16
IC17
Q6
IC5 IC18
Q13
IC4
IC3
Q5
Q1
Q10
Q9 Q4
Q12 Q2
Q11
Q14
Q3
IC10
IC2
Q8

SIDE A

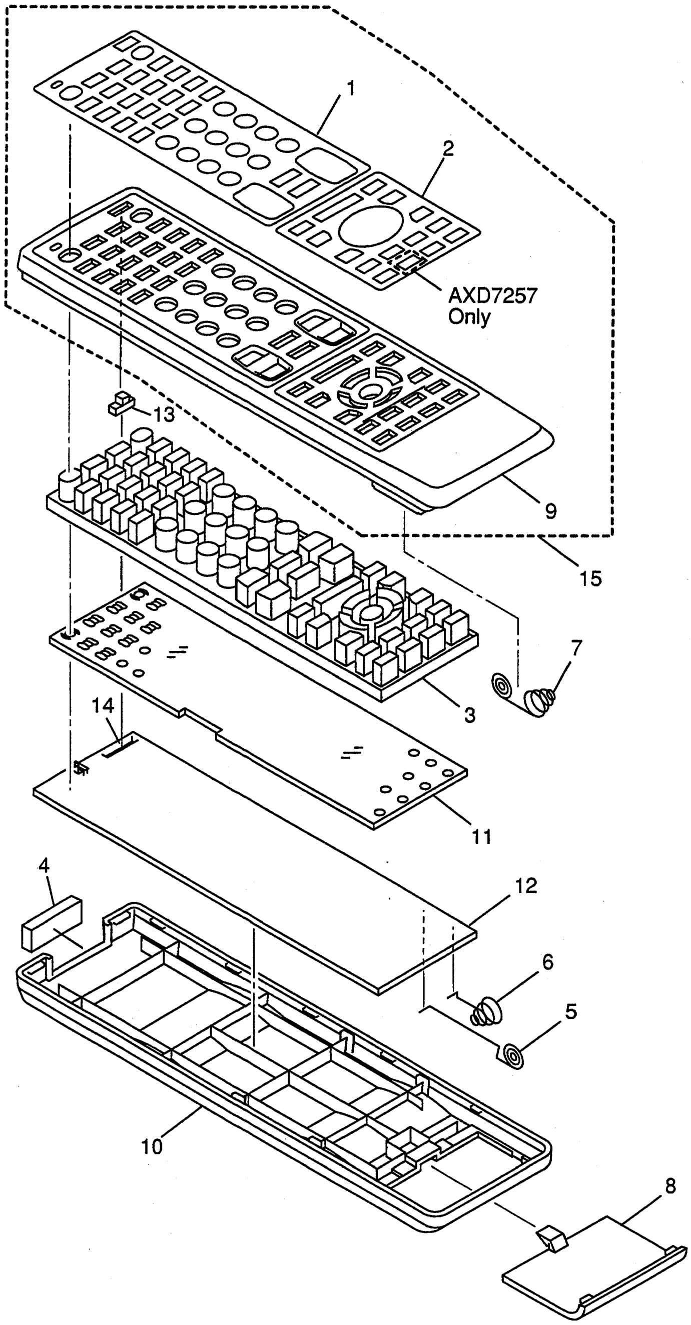

1
2
3
4
A
B
C
D
K1
K2
K12
K13
K18
K6
K7
EL
HON
GND
VDD
RRC4000-7201R
401RRC-193-03Ⓐ
020

SIDE B

7.3.2 AXD7257 (Remote Control 37) and AXD7278 (Remote Control 909S)

7.3.2.1 EXPLODED VIEWS AND PARTS LIST

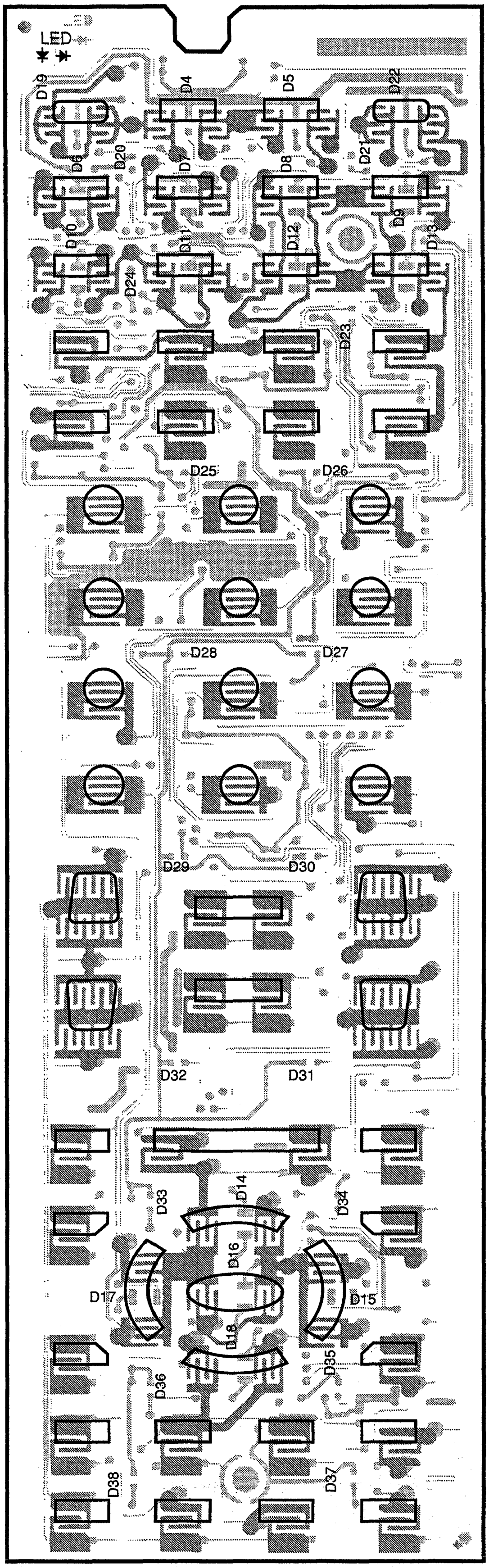
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*



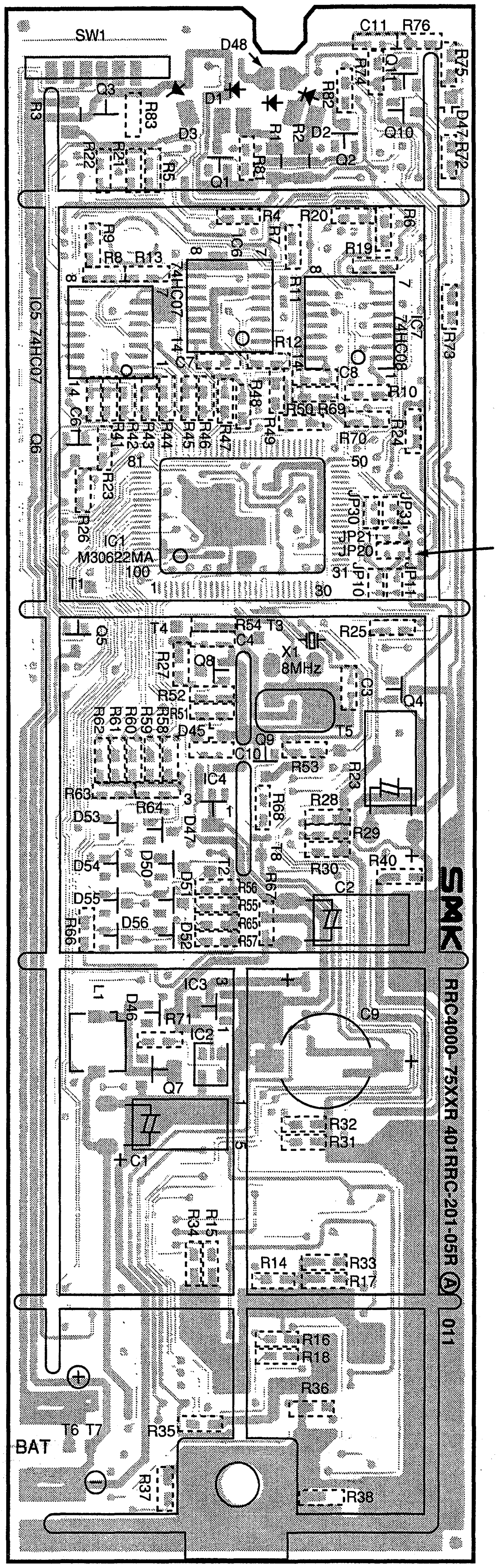
• PARTS LIST

Mark	No.	Description	Part No.
	1	Name Plate A	AZA7380
	2	Name Plate B (AXD7257)	AZA7381
	2	Name Plate B (AXD7278)	AZA7386
	3	Rubber Sheet (AXD7257)	AZA7382
	3	Rubber Sheet (AXD7278)	AZA7387
	4	Filter	AZA7340
	5	Terminal A (+)	AZB7141
	6	Terminal B (-)	AZB7142
	7	Spring	AZB7143
	8	Battery Cover	AZN7841
	9	Case (A)	AZN7832
	10	Case (B)	AZN7781
NSP	11	Illumi Plate	AZN7782
	12	PCB	AZW7260
	13	Knob	AZA7398
	14	Slide Switch	AZS7036
	15	Case A assy : 7257	AZN7846
	15	Case A assy : 7278	AZN7847

7.3.2.2 PCB DIAGRAM


LED
D19
D4
D5
D22
D6
D20
D7
D8
D21
D9
D10
D11
D12
D13
D24
D23
D25
D26
D28
D27
D29
D30
D32
D31
D33
D14
D34
D16
D17
D15
D18
D36
D35
D38
D37

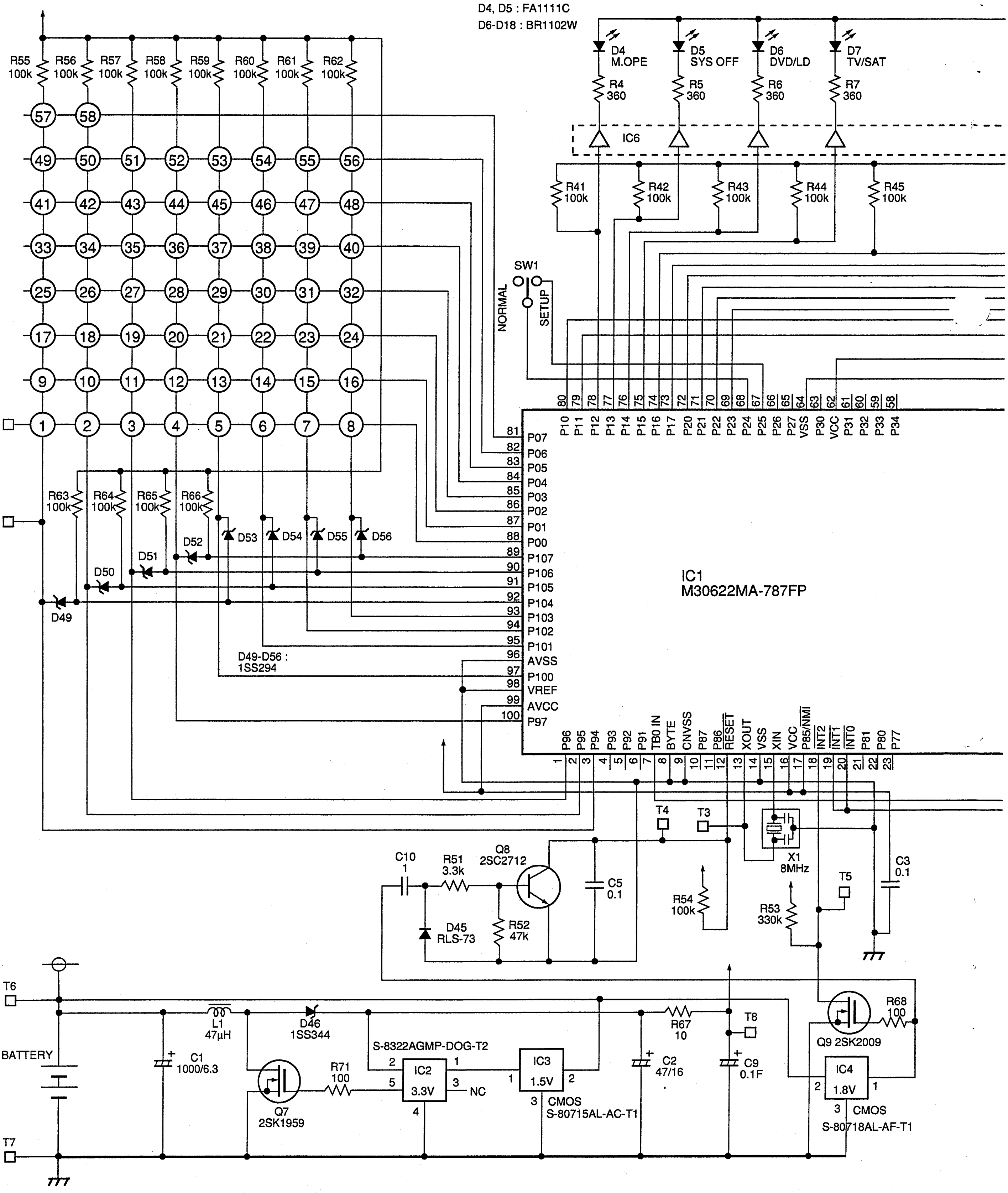
SIDE A

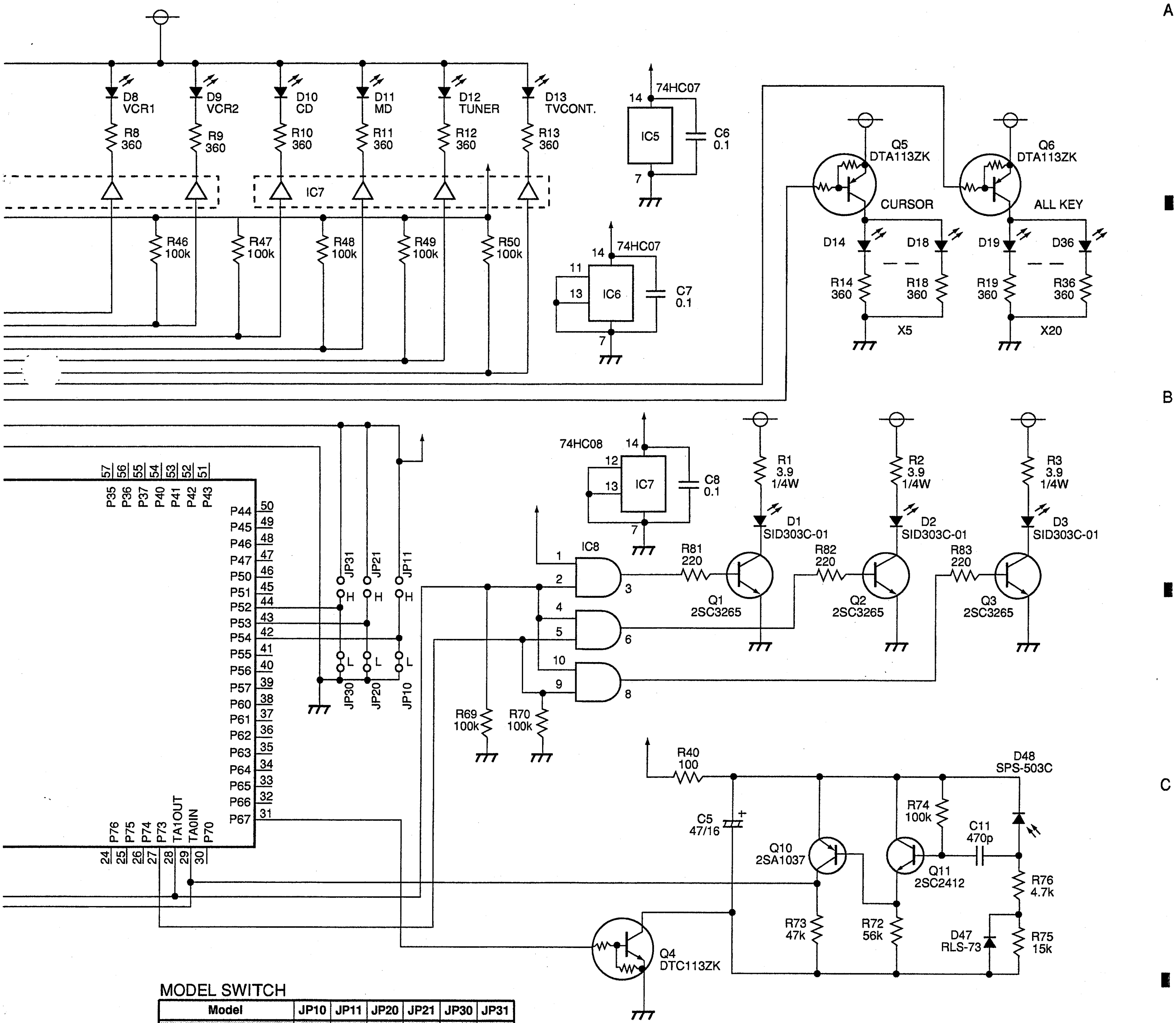

SW1
D48
C11
R76
R75
R74
Q11
R82
Q3
R83
D1
R3
R1
R2
D2
Q10
D47
R72
D3
R22
R21
R5
R81
Q1
Q2
R4
R20
R6
R9
IC6
R7
R19
R8
R13
74HC07
R11
IC7
74HC08
IC5 74HC07
R73
R12
C7
C8
R10
C6
R42
R41
R43
R44
R45
R46
R47
R48
R49
R50
R69
R70
R24
81
50
Q6
R23
R26
IC1
M30622MA
100
1
30
31
JP30
JP31
JP21
JP20
JP10
JP11
T1
T4
R54
T3
C4
R25
Q5
Q8
X1
8MHz
R27
R52
C3
Q4
R51
R62
R61
R60
R59
R58
D45
Q9
T5
C10
R53
R23
IC4
R63
R64
R68
R28
D53
D47
R29
D54
D50
T2
D51
R56
R67
T8
R30
R40
R55
C2
D55
R66
D56
D52
R65
R57
SMK
L1
D46
IC3
R71
IC2
C9
Q7
R32
R31
C1
R15
R34
R14
R33
R17
RRC4000-75XXR 401RRC-201-05R Ⓐ
011
R16
R18
R36
T6 T7
R35
BAT
R37
R38

Open (Remove) JP11, 21, 31.

SIDE B

7.3.2.3 SCHEMATIC DIAGRAM


A
B
C
D
D4, D5 : FA1111C
D6-D18 : BR1102W
D4 M.OPE
D5 SYS OFF
D6 DVD/LD
D7 TV/SAT
R4 360
R5 360
R6 360
R7 360
IC6
R41 100k
R42 100k
R43 100k
R44 100k
R45 100k
R55 100k
R56 100k
R57 100k
R58 100k
R59 100k
R60 100k
R61 100k
R62 100k
57 58
49 50 51 52 53 54 55 56
41 42 43 44 45 46 47 48
33 34 35 36 37 38 39 40
25 26 27 28 29 30 31 32
17 18 19 20 21 22 23 24
9 10 11 12 13 14 15 16
1 2 3 4 5 6 7 8
T1
T2
R63 100k
R64 100k
R65 100k
R66 100k
D49 D50 D51 D52 D53 D54 D55 D56
D49-D56 : 1SS294
SW1
NORMAL
SETUP
IC1
M30622MA-787FP
81 P07
82 P06
83 P05
84 P04
85 P03
86 P02
87 P01
88 P00
89 P107
90 P106
91 P105
92 P104
93 P103
94 P102
95 P101
96 AVSS
97 P100
98 VREF
99 AVCC
100 P97
80 P10
79 P11
78 P12
77 P13
76 P14
75 P15
74 P16
73 P17
72 P20
71 P21
70 P22
69 P23
68 P24
67 P25
66 P26
65 P27
64 VSS
63 P30
62 VCC
61 P31
60 P32
59 P33
58 P34
1 P96
2 P95
3 P94
4 P93
5 P92
6 P91
7 TB0 IN
8 BYTE
9 CNVSS
10 P87
11 P86
12 RESET
13 XOUT
14 VSS
15 XIN
16 VCC
17 P85/NMI
18 INT2
19 INT1
20 INT0
21 P81
22 P80
23 P77
T4
T3
X1 8MHz
C3 0.1
T5
C10 1
R51 3.3k
Q8 2SC2712
C5 0.1
R54 100k
R53 330k
D45 RLS-73
R52 47k
T6
BATTERY
T7
C1 1000/6.3
L1 47μH
D46 1SS344
S-8322AGMP-DOG-T2
IC2 3.3V
NC
Q7 2SK1959
R71 100
IC3 1.5V
CMOS S-80715AL-AC-T1
C2 47/16
R67 10
T8
C9 0.1F
Q9 2SK2009
R68 100
IC4 1.8V
CMOS S-80718AL-AF-T1


A
B
C
D
D8 VCR1
D9 VCR2
D10 CD
D11 MD
D12 TUNER
D13 TVCONT.
R8 360
R9 360
R10 360
R11 360
R12 360
R13 360
IC7
R46 100k
R47 100k
R48 100k
R49 100k
R50 100k
74HC07
IC5
C6 0.1
14
7
74HC07
IC6
C7 0.1
11
13
Q5 DTA113ZK
CURSOR
Q6 DTA113ZK
ALL KEY
D14
D18
D19
D36
R14 360
R18 360
R19 360
R36 360
X5
X20
74HC08
IC7
C8 0.1
12
13
R1 3.9 1/4W
R2 3.9 1/4W
R3 3.9 1/4W
D1 SID303C-01
D2 SID303C-01
D3 SID303C-01
IC8
R81 220
R82 220
R83 220
Q1 2SC3265
Q2 2SC3265
Q3 2SC3265
R69 100k
R70 100k
JP31
JP21
JP11
JP30
JP20
JP10
H
L
57 56 55 54 53 52 51
P35 P36 P37 P40 P41 P42 P43
P44 50
P45 49
P46 48
P47 47
P50 46
P51 45
P52 44
P53 43
P54 42
P55 41
P56 40
P57 39
P60 38
P61 37
P62 36
P63 35
P64 34
P65 33
P66 32
P67 31
P76 P75 P74 P73 TA1OUT TA0IN P70
24 25 26 27 28 29 30
R40 100
C5 47/16
Q10 2SA1037
Q11 2SC2412
R74 100k
C11 470p
D48 SPS-503C
R76 4.7k
R73 47k
R72 56k
D47 RLS-73
R75 15k
Q4 DTC113ZK

MODEL SWITCH

Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	–	○	–	○	–	○
AXD7258, AXD7279	–	○	–	○	○	–
AXD7259	–	○	○	–	–	○
AXD7266	–	○	○	–	○	–
AXD7273	○	–	–	○	–	○
AXD7275	○	–	–	○	○	–

7.3.2.4 PCB PARTS LIST

NOTES: ● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Part No.
	IC1		M30622MA-787FP
	IC2		S-8322AGMP-DOG-T2
	IC3		S-80715AL-AC-T1
	IC4		S-80718AL-AF-T1
	IC5,IC6		74HC07
	IC7		74HC08
	Q1-Q3		2SC3265
	Q4		DTC113ZK
	Q5,Q6		DTA113ZK
	Q7		2SK1959
	Q8		2SC2712
	Q9		2SK2009
	Q10		2SA1037
	Q11		2SC2412
	D1-D3		SID303C-01
	D6-D18		BR1102W
	D23-D36		CL190TD-CD
	D45,D47		RLS-73
	D46		1SS344
	D48		SPS-503C
	D49-D56		1SS294

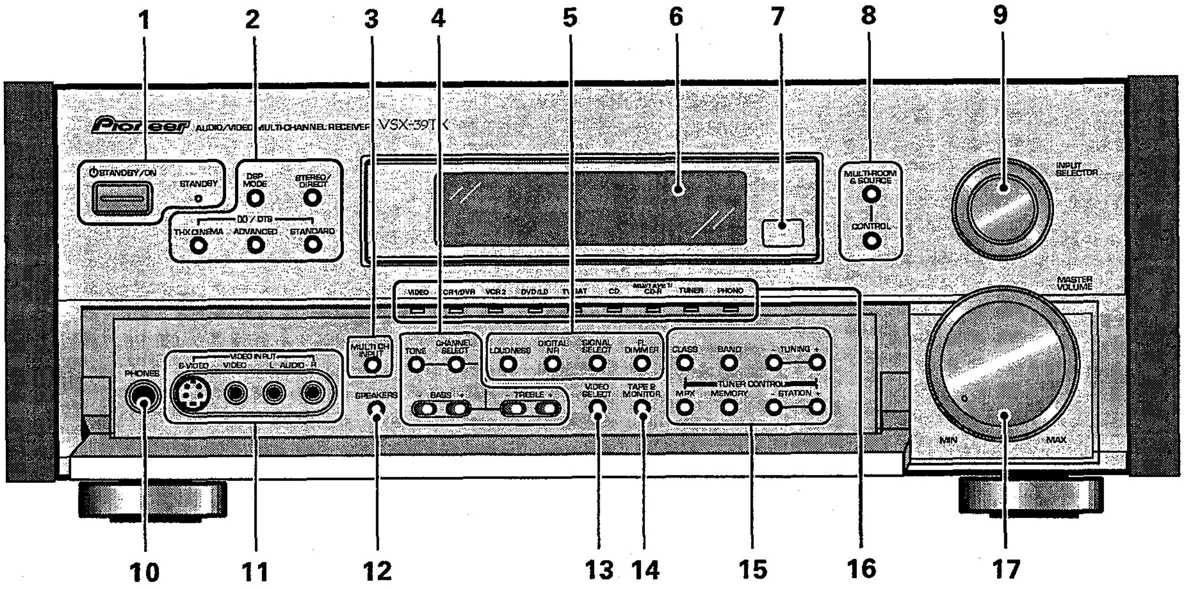
8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section (VSX-39TX,VSX-37TX,VSX-36TX)

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.

VSX-39TX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STANDBY/ON
STANDBY
DSP MODE
STEREO/DIRECT
DD / DTS
THX CINEMA
ADVANCED
STANDARD
MULTI-ROOM & SOURCE
CONTROL
INPUT SELECTOR
VIDEO
CR1/DVR
VCR2
DVD/LD
TV/SAT
CD
MD/TAPE1/CD-R
TUNER
PHONO
MASTER VOLUME
PHONES
VIDEO INPUT
S-VIDEO
VIDEO
L AUDIO R
MULTI CH INPUT
SPEAKERS
TONE
CHANNEL SELECT
BASS
TREBLE
LOUDNESS
DIGITAL NR
SIGNAL SELECT
FL DIMMER
VIDEO SELECT
TAPE 2 MONITOR
CLASS
BAND
TUNING
TUNER CONTROL
MPX
MEMORY
STATION
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MAX
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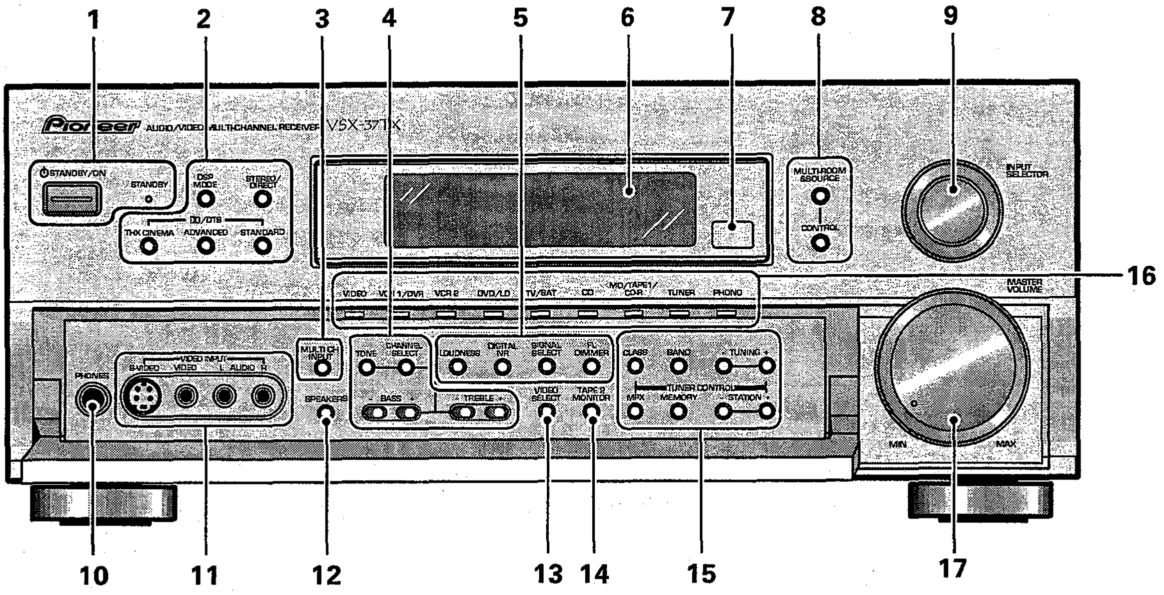
VSX-37TX
VSX-36TX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STANDBY/ON
STANDBY
DSP MODE
STEREO/DIRECT
DD/DTS
THX CINEMA
ADVANCED
STANDARD
MULTI-ROOM &SOURCE
CONTROL
INPUT SELECTOR
VIDEO
VCR1/DVR
VCR2
DVD/LD
TV/SAT
CD
MD/TAPE1/CD-R
TUNER
PHONO
MASTER VOLUME
PHONES
VIDEO INPUT
S-VIDEO
VIDEO
L AUDIO R
MULTI CH INPUT
SPEAKERS
TONE
CHANNEL SELECT
BASS
TREBLE
LOUDNESS
DIGITAL NR
SIGNAL SELECT
FL DIMMER
VIDEO SELECT
TAPE 2 MONITOR
CLASS
BAND
TUNING
TUNER CONTROL
MPX
MEMORY
STATION
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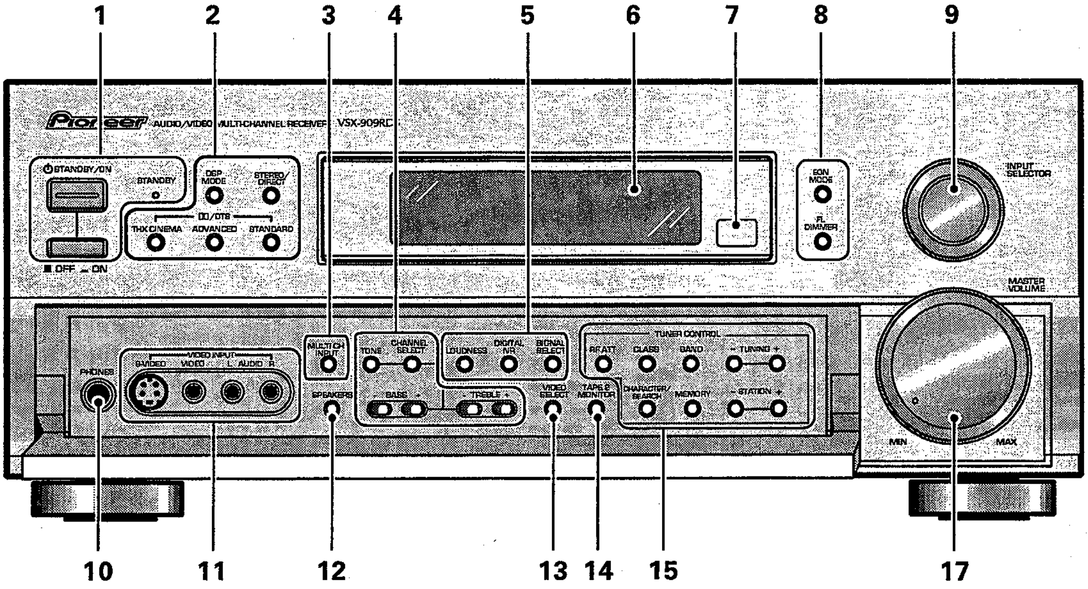
■ Front Section (VSX-D909S)

VSX-D909S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STANDBY/ON
STANDBY
DSP MODE
STEREO/DIRECT
THX CINEMA
ADVANCED
STANDARD
OFF ON
SON MODE
FL DIMMER
INPUT SELECTOR
MASTER VOLUME
PHONES
VIDEO INPUT
S-VIDEO
VIDEO
L AUDIO R
MULTI CH INPUT
TONE
CHANNEL SELECT
LOUDNESS
DIGITAL NR
SIGNAL SELECT
SPEAKERS
BASS
TREBLE
VIDEO SELECT
TAPE 2 MONITOR
TUNER CONTROL
BEAT
CLASS
BAND
TUNING
CHARACTER/SEARCH
MEMORY
STATION
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1 **⏻ STANDBY/ON button**
Press to switch the receiver ON or into STANDBY mode.

STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [1.0 W] in the standby mode.)

2 **DSP MODE button**
Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5/7 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

STEREO/DIRECT button
Switches the receiver into STEREO mode if it was in a different sound mode (like DSP mode) or toggles between DIRECT and STEREO mode. For more on STEREO mode .

DIRECT playback bypasses the tone controls, DIGITAL NR, LOUDNESS, MIDNIGHT and channel level for the most accurate reproduction of a program source.

DD / DTS buttons
THX CINEMA – Cycles through the THX CINEMA, THX SURROUND EX or THX AUTO sound modes. If you have THX-certified speaker setup or want to re-create a THX-style sound environment. It is also appropriate for Dolby Digital, Dolby Pro Logic, DTS sources. Those with surround back speakers can use all three THX modes, those without can only use the THX CINEMA mode.

ADVANCED – Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic, DTS sources.

STANDARD – Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic, DTS sources. Each press toggles between STANDARD and STANDARD 7.1 mode (for use with SURROUND BACK speakers) and STANDARD auto (the receiver chooses the appropriate STANDARD mode). Those with surround back speakers can use all three STANDARD modes, those without can only use the STANDARD mode.

3 **MULTI CH INPUT**
Use to hook up an external component that can decode other types of signals and input them into the VSX-39TX.

4 **TONE control buttons**

TONE button
This button has two functions. Firstly, it switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE (cannot be used in THX or MULTI CH IN modes).

CHANNEL SELECT button
Switches the tone adjust controls between the FRONT, CENTER, SURROUND and SURROUND BACK speakers. You can then use the BASS and TREBLE controls to adjust the sound.

BASS (–/+) button
Use to adjust low frequencies.

TREBLE (–/+) button
Use to adjust the high frequencies.

5 **LOUDNESS button**
Switches the LOUDNESS mode on or off (cannot be used in THX or MULTI CH IN modes).

DIGITAL NR button
Switches the DIGITAL NR on or off (cannot be used in THX or MULTI CH IN modes).

SIGNAL SELECT button
Use to select the type of signal being input into the receiver. Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – To select an analog signal.

DIGITAL – To select a optical or coaxial digital signal.

AC-3 RF – To select an DD RF signal.

AUTO – This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

FL DIMMER button
Use to adjust the brightness of the main display.

6 Display

7 Remote sensor

Point the remote control toward the remote sensor to operate the receiver .

8 MULTI-ROOM & SOURCE button

Press to use the multi room feature (requires an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver).

CONTROL button : Used together with the INPUT SELECTOR to select the function or use with the MASTER VOLUME to select the volume of the MULTI ROOM system.

9 INPUT SELECTOR dial

Turn to select a source component. (You can also use to select a function in the MULTI-ROOM & SOURCE mode). The source indicators show the current component:

DVD/LD – DVD player or Laser Disc player.

TV/SAT– TV or satellite tuner.

CD – Compact Disc player.

MD/TAPE1/CD-R – Tape deck, Mini Disc recorder or CD recorder connected to MD/TAPE 1/CD-R inputs/outputs.

TUNER – The receiver's built-in tuner.
PHONO – Turntable.

VIDEO – Video camera (etc.) connected to the VIDEO INPUT on the front panel.
VCR1/DVR – Video cassette recorder connected to VCR1/DVR inputs.
VCR 2 – Video cassette recorder or other component connected to VCR 2 inputs.

10 PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers)

11 VIDEO INPUT jacks

S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out.

VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

12 SPEAKERS (A/B) button

Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the subwoofer. Multi channel sources will be down-mixed to these Speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off.

13 VIDEO SELECT button

Switches the receiver between the various types of video input.

14 TAPE 2 MONITOR button

Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

15 TUNER CONTROL buttons

CLASS – Press repeatedly to switch the preset station classes.

BAND – Press to select the AM or FM band.

TUNING –/+ – Use to manually tune to radio stations.

MPX – Press to switch between auto stereo and MONO reception of FM broadcasts. When the broadcast signal is weak, selecting MONO will improve the sound quality.

MEMORY – Press to start the memorization of a preset station.

STATION –/+ – Use to choose programmed radio stations.

16 Source indicators

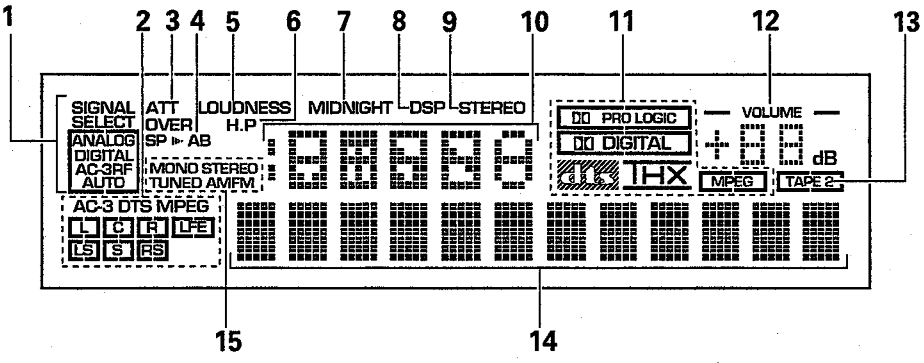
Shows the source currently selected.

17 MASTER VOLUME

Adjusts the overall receiver volume.

■ Display

All the display information is explained and /or referenced here.



1 SIGNAL SELECT indicators
Light to indicate the input signal you selected.

ANALOG : Lights when analog signals are assigned.
DIGITAL : Lights when digital audio signals are selected.
AC-3 RF : Lights when AC-3 RF signals are assigned.
AUTO : Lights when the receiver is set to select the input signal automatically.

2 Program Format indicators
AC-3 : Lights when a source with Dolby Digital signals is played.
DTS : Lights when a source with DTS audio signals is played.

For Dolby Digital or DTS sources : These indicators change according to which channels are active in the source. When all three LS (left surround), S (surround) and RS (right surround) light at the same time it means a source with Surround EX or DTS-ES flag is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low Frequency Effects channel.

3 Analog level indicators
OVER – When the source signal is analog, this lights if the signal is in danger of distorting. Press INPUT ATT on the front panel to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

4 Speaker indicators
Light to indicate the current speaker system, A and/or B.

5 LOUDNESS indicator
Lights when the LOUDNESS mode is on.

6 H.P (headphones)
Lights when headphones are connected to the PHONES jack (speakers systems A and B both turn off automatically).

7 MIDNIGHT indicator
Lights when the MIDNIGHT LISTENING mode is on.

8 DSP indicator
Light when a DSP or Advanced Theater modes are selected.

9 STEREO indicator
Lights when a STEREO modes are selected.

10 Radio Frequency/Function indicator
Displays the function or the frequency of the current radio station.

11 DD / dts mode indicators
DD DIGITAL : When the DD /dts mode on the receiver is on, this indicator lights to indicate playback of a Dolby Digital signal. However, DD PRO LOGIC lights during 2 channel playback of Dolby Digital.
DD PRO LOGIC : When the DD/dts mode on the receiver is on, this indicator lights during 2 channel playback.
DTS : When the DD/dts mode on the receiver is on, this indicator lights to indicate playback of a DTS signal.
THX: Lights when the HOME THX CINEMA mode is selected.

12 MASTER VOLUME indication
Displays current volume level.

13 TAPE 2 indicator
Lights when the TAPE 2 monitor is on.

14 Character display
Shows current mode, status, etc.

15 TUNER indicators
MONO : Lights when the tuner is set to receive FM broadcasts and when selected MPX mode.

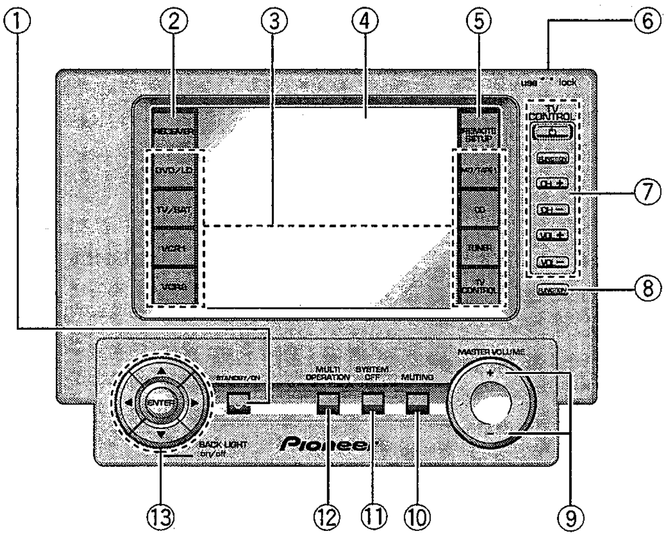
STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

AM/FM : Light to indicate the current band (FM or AM).

■ Remote Control Unit (VSX-39TX)

These pages describe the buttons on the remote control used to operate the receiver. Since the screen on this LCD remote control changes when you select a different function, explanations of buttons for controlling other components/functions can be found in the sections for those components/functions.



memo

To turn on the remote control touch it anywhere on the screen.

① ⏻ STANDBY/ON button

Press to turn power of the receiver on or to STANDBY (off).

② RECEIVER button

Press to switch the remote control into receiver mode or to get receiver screens.

③ Function buttons

These buttons are the basic controls that switch the mode of the receiver and allow you to control your other components.
DVD/LD: Press to switch the remote control into DVD/LD mode.
TV/SAT: Press to switch the remote control into TV/SAT (satellite tuner) mode.
VCR 1: Press to switch the remote control into VCR 1 mode.
VCR 2: Press to switch the remote control into VCR 2 mode.
MD/TAPE 1: Press to switch the remote control into MD/TAPE 1 mode.
CD: Press to switch the remote control into CD mode.
TUNER: Press to switch the remote control into TUNER mode.
TV CONTROL: Press so that the remote control can operate the TV CONTROL commands.

④ REMOTE CONTROL screen

⑤ REMOTE SETUP button.

Use to customize the remote control functions and the remote control itself. (See "Setting Up Remote Control of Other Components" starting on)

⑥ LOCK switch

Use to lock the remote control so it doesn't turn on by accident. For normal use keep it set in USE.

⑦ TV CONTROL buttons

The following buttons are used to control the TV only and can be used once they are preset to control your TV.
⏻ STANDBY/ON : Press to turn the power of the TV on/off.
FUNCTION : Press TV FUNC to select the TV for remote control operation.
CH +/– : Use these buttons to change the channel of the TV.
VOL +/– : Press to control the volume of the TV.

⑧ FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

⑨ MASTER VOLUME button

Use to raise or lower the volume of the receiver.

⑩ MUTING button

Press to mute or restore the volume.

⑪ SYSTEM OFF button

This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.
For example : If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑫ MULTI OPERATION button

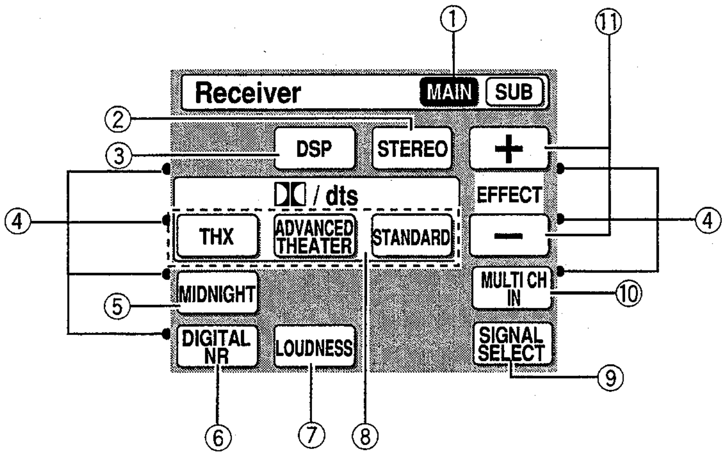
Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

⑬ ▲/▼(BACK LIGHT on/off)/◄/►/ENTER buttons

These buttons can be used for a variety of operations. In the SYSTEM SETUP menu, the ▲/▼ buttons can be used to adjust CHANNEL DELAY or CHANNEL LEVEL.
The ▲/▼ buttons, pressed simultaneously, can be use to lock or unlock a setting .
These buttons are also used to control the DVD menu for the DVD remote control screen. If the remote control is in the REMOTE SETUP mode you can use the ▼ button to adjust the BACKLIGHT.

Basic Receiver LCD Screens

Receiver MAIN Screen



① **Receiver MAIN button**
Press this button to select the main receiver screen (above) when the remote control is on the sub receiver screen.

② **STEREO button**
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER or THX CINEMA) or toggles between DIRECT and STEREO mode.

③ **DSP button**
Press repeatedly to select a DSP sound mode.

④ **DIRECT FUNCTION on/off indicator**

These dots indicate weather the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

⑤ **MIDNIGHT button**
Switches the MIDNIGHT LISTENING mode on or off (for all modes except THX and MULTI CH IN).

⑥ **DIGITAL NR button**
Switches the DIGITAL NR on or off (for all modes except THX and MULTI CH IN).

⑦ **LOUDNESS button**
Switches the LOUDNESS mode on or off (for all modes except THX and MULTI CH IN).

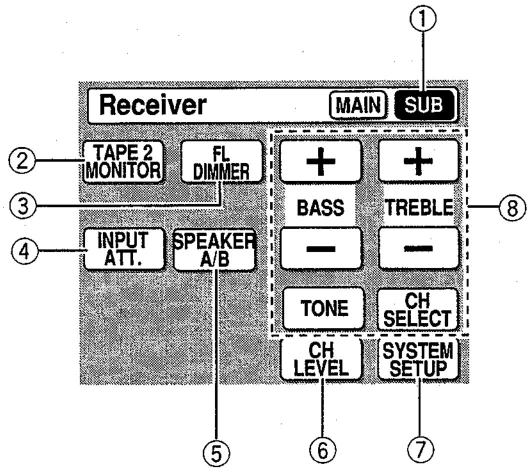
⑧ **DD/dts buttons**
Press these buttons to put the receiver in the selected surround sound mode. For more information on the modes.

⑨ **SIGNAL SELECT button**
Press SIGNAL SELECT repeatedly to select one of the following:
ANALOG : To select an analog signal.
DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).
AC-3 RF : To select an DD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).
AUTO : This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

⑩ **MULTI CH IN button**
Use to hook up an external component that can decode other types of signals and input them into the VSX-39TX.

⑪ **EFFECT +/– button**
Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/ Advanced Theater mode you want (by pressing the DSP/ Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

Receiver SUB Screen



① **Receiver MAIN button**
Press this button to select the main receiver screen (above) when the remote control is on the sub receiver screen.

② **STEREO button**
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER or THX CINEMA) or toggles between DIRECT and STEREO mode.

③ **DSP button**
Press repeatedly to select a DSP sound mode.

④ **DIRECT FUNCTION on/off indicator**

These dots indicate weather the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

⑤ **MIDNIGHT button**
Switches the MIDNIGHT LISTENING mode on or off (for all modes except THX and MULTI CH IN).

⑥ **DIGITAL NR button**
Switches the DIGITAL NR on or off (for all modes except THX and MULTI CH IN).

⑦ **LOUDNESS button**
Switches the LOUDNESS mode on or off (for all modes except THX and MULTI CH IN).

⑧ **DD/dts buttons**
Press these buttons to put the receiver in the selected surround sound mode. For more information on the modes .

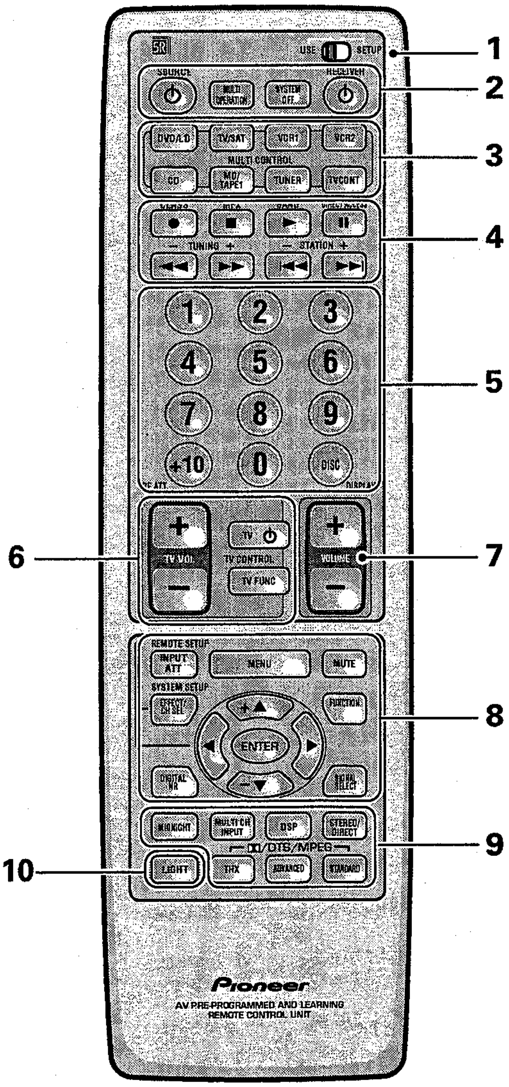
⑨ **SIGNAL SELECT button**
Press SIGNAL SELECT repeatedly to select one of the following:
ANALOG : To select an analog signal.
DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).
AC-3 RF : To select an DD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).
AUTO : This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

⑩ **MULTI CH IN button**
Use to hook up an external component that can decode other types of signals and input them into the VSX-39TX.

⑪ **EFFECT +/– button**
Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater mode you want (by pressing the DSP/Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

■ Remote Control Unit (VSX-37TX/VSX-36TX/VSX-D909S)

These pages describe the buttons on the remote control used to operate the receiver.


USE
SETUP
SOURCE
RECEIVER
MULTI OPERATION
SYSTEM OFF
DVD/LD
TV/SAT
VCR1
VCR2
MULTI CONTROL
CD
MD/TAPE1
TUNER
TVCONT
TUNING
STATION
1
2
3
4
5
6
7
8
9
+10
0
DISC
TV VOL
TV CONTROL
TV FUNC
VOLUME
REMOTE SETUP
INPUT ATT
MENU
MUTE
SYSTEM SETUP
ENTER
MIDNIGHT
MULTI CH INPUT
DSP
STEREO DIRECT
DTS/MPEG
LIGHT
THX
ADVANCED
STANDARD
Pioneer
AV PRE-PROGRAMMED AND LEARNING REMOTE CONTROL UNIT
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1 **USE/SETUP slide switch**
Use to put the remote into receiver SETUP, or receiver USE mode.

2 **⏻ SOURCE button**
Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

MULTI OPERATION button
Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

SYSTEM OFF button
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will also be turned off .

For example : If you programmed power on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⏻ RECEIVER button
Press to turn power of the receiver on or to STANDBY (off).

3 **MULTI CONTROL buttons**
Use these to select a source and the corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote operation to the tuner functions.

4 **Component Control buttons**
Use to control specific components, like a CD player or DVD player, after you have programmed the remote control to do these operations and the remote is put in that operation mode.

5 **Number buttons**
These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD and tuner operations.

6 **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV ⏻ button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/- button – Use to adjust the TV volume.

7 MASTER VOLUME buttons

Use to raise or lower the volume of the receiver.

8 INPUT ATT button (when USE mode is selected)

Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicator will light).

REMOTE SETUP button (when SETUP mode is selected)

Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components" starting on , "Multi Operation" starting on)

MENU button

Use to get the various menus for your TV or DTV.

MUTING button

Press to mute or restore the volume.

EFFECT/CH SEL (when USE mode is selected) button

EFFECT – Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater you want (by pressing the DSP/Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

CH SEL – You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

SYSTEM SET UP button (when SETUP mode is selected)

Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound" starting on .

FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

▲(+)/▼(–)/◄/►/ENTER buttons

Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other set up features . Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section.

DIGITAL NR button

Press to switch Digital NR on or off.

SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1/CD-R, VCR 1/DVR, VCR 2).

AC-3 RF (VSX-37TX only) – ᗡD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO – This is the default. If there are both analog, digital, ᗡD RF input signals, the receiver automatically selects the best possible signal.

9 MIDNIGHT button

Switches the MIDNIGHT mode on or off.

MULTI CH INPUT button

Press to switch to MULTI CH IN mode.

DSP button

Press repeatedly to select a DSP sound mode.

STEREO/DIRECT button

Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode .

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

LIGHT button

Press to light the remote control buttons.

ᗡD /DTS buttons

Press these buttons to put the receiver in the selected sound mode. For more information on the sound modes.

8.2 SPECIFICATIONS

VSX-39TX :

Continuous average power output of 120 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Audio Section

Continuous Power Output	
Front	120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Center	120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Rear	120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	335 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1 kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	5 Hz to 100,000 Hz dB
Output (Level/Impedance)	
VCR 1/DVR REC, VCR 2 REC, MD/TAPE 1/CD-R REC TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1, TAPE 2	101 dB
MULTI CHANNEL IN	105 dB(Channel Level:Bypass)
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	83 dB

Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz dB

Component Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	460 W, 630 VA
Power Consumption in Standby mode	1.0 W
AC Outlet	
SWITCHED (x2)	Total 100 W (0.8 A) MAX
UNSWITCHED	100 W (0.8 A) MAX
Dimensions	457 (W) x 174 (H) x 470 (D) mm (17-15/16 (W) x 6-13/16 (H) x 18-1/2 (D) in.)
Weight (without package)	17.2 kg (37 lb 15 oz)

Furnished Parts

FM wire Antenna	1
AM Loop Antenna	1
"AA" IEC LR6 batteries	4
Remote Control Unit	1
Touch Pen	1
Cushion for Remote	4
Operating Instructions	1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

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* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Amplifier Section

VSX-37TX :

Continuous average power output of 120 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

VSX-36TX:

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

VSX-37TX :

Continuous Power Output	
Front	120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Center	120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Rear	120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)

VSX-36TX :

Continuous Power Output	
Front	100 W + 100 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Center	100 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Rear	100 W + 100 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	335 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	5 Hz to 100,000 Hz dB
Output (Level/Impedance)	
VCR 1/DVR REC, VCR 2 REC, MD/TAPE 1/CD-R REC TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1CD-R, TAPE 2	101 dB
MULTI CHANNEL IN	105 dB(Channel Level:Bypass)
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz dB

Component Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
VSX-37TX :	
Power Consumption	460 W, 630 VA
Power Consumption in Standby mode	1.0 W
AC Outlet	
SWITCHED (x2)	Total 100 W (0.8 A) MAX
UNSWITCHED	100 W (0.8 A) MAX
Dimensions	420 (W) x 173 (H) x 470 (D) mm (16-9/16 (W) x 6-13/16 (H) x 18-1/2 (D) in.)
Weight (without package)	15.2 kg (33 lb 9 oz)
VSX-36TX :	
Power Consumption	400 W, 550 VA
Power Consumption in Standby mode	1.0 W
AC Outlet	
SWITCHED (x2)	Total 100 W (0.8 A) MAX
UNSWITCHED	100 W (0.8 A) MAX
Dimensions	420 (W) x 173 (H) x 470 (D) mm (16-9/16 (W) x 6-13/16 (H) x 18-1/2 (D) in.)
Weight (without package)	14.4 kg (31 lb 13 oz)

Furnished Parts

FM wire Antenna	1
AM loop Antenna	1
"AA" IEC LR6 batteries	2
Remote Control Unit	1
Operating Instructions	1

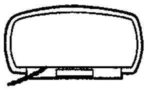
NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

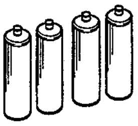
VSX-39TX, VSX-37TX, VSX-36TX, VSX-D909S

■ Accessories (VSX-39TX)

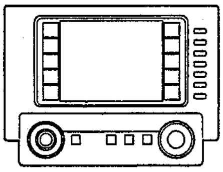
FM wire antenna
(ADH7007)



AM loop antenna
(ATB7009)



"AA" IEC LR6
batteries x 4



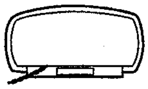
Remote control unit
(Remocon39 : AXD7254)

Touch pen
(E-AA1445-001)

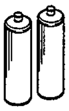
Cushion for
Remote x 4
(AXG7080)

■ Accessories (VSX-37TX/VSX-36TX/VSX-D909S)

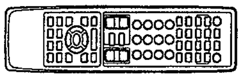
FM wire antenna
(ADH7007)



AM loop antenna
(ATB7009)



"AA" IEC LR6 batteries x 2



Remote control unit
(Remocon37 : AXD7257)
VSX-37TX/VSX-36TX
(Remocon909S : AXD7278)
VSX-D909S

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